SESEI 3

Seconded European Standardization Expert in India

Newsletter

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

EC - European Commission
EFTA - European Free Trade Association

In this Issue

Greeting from SESEI!!!

Dear Readers,

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

With the onset of the year we are ready yet again with a fresh dose of our latest updates and information around policy & regulatory decisions and standards development activities being carried out in India around our project priority sectors. This eleventh edition of our "SESEI Newsletter India", has all this and much more.

As a representative of European Standards Organization, I am also very proud to announce that the EU through its "Joint Communication – Elements for an EU Strategy on India" aims to reinforce EU-India strategic partnership and build a strong partnership for sustainable modernization in which harmonization of Standards and technologies will play a pivot role.

Blockchain and Artificial Intelligence were key priority areas during the last quarter of 2018. While a new Industry Specification Group was established at ETSI, CEN CENELEC have also created a joint Focus Group on Blockchain and Distributed Ledger Technologies (DLT) which has published a white paper on 'Recommendations for Successful Adoption in Europe of Emerging Technical Standards on Distributed Ledger/Blockchain Technologies', addressing priority topics such as sustainable development, digital identity, privacy and data protection, etc. WTSI's

European Commission has developed a Coordinated plan on Artificial Intelligence (AI) Communication to foster the development and use of artificial intelligence in Europe. This Plan includes enhanced investment, creation of data spaces and talent pool. Similarly, a focus group on Artificial Intelligence has also been formed at CEN-CENELEC which will identify specific standardization needs for AI; liaise with the European Commission's AI High Level Group; and strengthen European participation in the ISO and IEC's Technical Committees working on AI.

In the M2M/ IoT domain, oneM2M has released its third set of specifications which are focused on the enhanced 3GPP interworking – in particular cellular IoT – and new capabilities to unlock value in industrial and smart home applications. oneM2M

platform have evolved from prototypes to commercial applications over the last 5 years and its been implemented in all parts of the world. This oneM2M based common service layer platform is capable of addressing diverse domains as smart cities, smart agriculture, automotive, smart home, smart living, testing, smart body area, aquiculture, healthcare etc.

A lot of activities around 5G technologies have taken place at ETSI during the last quarter. ETSI's millimetre Wave Transmission Industry Specification Group (mWT ISG) released a new Report, ETSI GR mWT 012, on 5G backhaul/X-Haul . The Report points out the importance of the appropriate regulation and licensing to ease 5G wireless backhaul/X-Haul deployments. ETSI Open Source MANO group have also published its OSM Release FIVE which will be a huge step towards 5G network deployments and their end-to-end orchestration by telecom operators.

ETSI group on Next Generation Protocol (ISG NGP) have released a new specification and reports to optimize the performance, efficiency, and scalability of new services proposed for 5G systems such as network slicing or ultra-reliable low latency communication (URLLC).

CENCENELEC have published a new standards on Open System Dependability EN IEC 62853:2018 , which will ensure trust and reliability for software systems in our environment. EN 50342-6:2015/A1:2018 'Lead-acid starter batteries - Part 6: Batteries for Micro-Cycle Applications' was also released by CEN CENELEC during last quarter.

It is also a matter of great pride that Vice President Policy CENELEC, Mr. Wim De Kesel was recognized for his exceptional contribution to the world of international electrotechnical standardization and was awarded Lord Kelvin Award at the 82nd International Electrotechnical Commission (IEC) General Meeting in Busan, South Korea

These were just a sneak peek into our Newsletter, there are many more important news items and updates regarding standardization in Europe concerning new technologies. Work programmes for 2019, White papers and list of upcoming events and seminars in Europe have also been captured and are important part of our Newsletter.

We will soon be changing the look and feel of our Newsletter and look forward to receiving your comments and suggestions to further improvise it. Happy Reading once again.

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EU shapes its ambitious strategy on India

The European Commission and the High Representative of the Union for Foreign Affairs and Security Policy adopted a Joint Communication that sets out the EU's vision for a strategy to strengthen cooperation and the partnership with India.

This Joint Communication replaces the last Commission Communication on India of 2004, recognising that India has emerged as the fastest-growing large economy and has acquired an important geopolitical role. The Communication aims to strengthen the EU-India Strategic Partnership by focusing on sustainable modernisation and on common responses to global and regional issues. It also seeks to reinforce the effectiveness of the EU's external action and is coherent with the implementation of the Global Strategy. The Joint Communication on elements for an EU strategy on India is available online.

Further Information

Joint Communication: Elements for an EU strategy on India
Memo: Explaining the European Union's partnership with India
Factsheet: A new EU Strategy on India

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ETSI launches new Industry Specification Group on blockchain

ETSI is pleased to announce the creation of a new Industry Specification Group on Permissioned Distributed Ledger (ISG PDL). The group will analyze and provide the foundations to operate permissioned distributed ledgers to be deployed across various industries and governmental institutions. The new ETSI group will work on the challenges related to the operation of permissioned distributed ledgers, business use cases, functional architecture and solutions for the operation of permissioned distributed ledgers, including interfaces/APIs/protocols and information/data models as well as other topics. The work focus will be discussed during the kick off meeting where officials of the group will be elected.

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CEN & CENELEC Joint focus group on Blockchain and Distributed Ledger Technologies

In 2017, CEN and CENELEC created a joint Focus Group on Blockchain and Distributed Ledger Technologies (DLT). The primary objective of the Focus Group is to identify specific European needs and requirements for the implementation of blockchain and DLT in Europe, and to map these needs against the work items of ISO/TC 307 'Blockchain and distributed ledger technologies'. The identification of such specific requirements has been formalised in the CEN-CENELEC White Paper 'Recommendations for Successful Adoption in Europe of Emerging Technical Standards on Distributed Ledger/Blockchain Technologies', which was developed by the Focus Group and approved by the CEN and CENELEC Technical Boards in October 2018. The White Paper provides 26 recommendations, addresses priority topics such as sustainable development, digital identity, privacy and data protection, and highlights specific European use cases.

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ETSI Open Source MANO announces Release FIVE, 5G ready

ETSI is excited to announce the availability of OSM Release FIVE. This new Release is a huge step towards 5G network deployments and their end-to-end orchestration by telecom operators. In Release FIVE, OSM extends its orchestration capabilities beyond virtual domains, expanding them across transport networks; as well as physical and hybrid network elements. All this is done in a technology-agnostic fashion, enabled by the enrichment of its existing plugin framework towards transport technologies and a consistent modelling of Network Functions. OSM Release FIVE has embraced a new micro-service architecture to facilitate the integration of an impressive number of new features, making Release FIVE an ideal choice for 5G scenarios, distributed and Edge deployments, and any kind of Network as a Service (NaaS) offer.

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IEC's Lord Kelvin Award to Wim De Kesel, CENELEC's Vice President Policy

Wim De Kesel, Vice President Policy CENELEC, was awarded on 24 October the 2018 edition of the prestigious Lord Kelvin Award at the 82nd International Electrotechnical Commission (IEC) General Meeting in Busan, South Korea. The Lord Kelvin Award is the highest honour bestowed by IEC and is attributed to individuals who have had an exceptional contribution to the world of international electrotechnical standardization.

The honour recognises Mr De Kesel's outstanding work at the centre of the European and international standardization ecosystem. The Lord Kelvin Award is not the first time Wim De Kesel's work has been celebrated by the standardization community: in 2011 he received the IEC Thomas Edison Award and in 2013, the CENELEC Technical Body Award.

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ETSI publishes Report on 5G Wireless Backhaul/X-Haul

ETSI's millimetre Wave Transmission Industry Specification Group (mWT ISG) has just released a new Report, ETSI GR mWT 012, which addresses the prominent 5G backhaul/X-Haul scenarios. It also presents how current microwave and millimetre wave transmission technologies, as well as their foreseen evolution in the pertinent areas of innovation, will satisfy upcoming 5G access requirements. The Report points out the importance of the appropriate regulation and licensing to ease 5G wireless backhaul/X-Haul deployments.

GR mWT 012 shows that microwave and millimetre wave transmission technologies are going to continue to play a pivotal role in the 5G era as they will be fundamental pillars of service providers' network development strategy to address the future radio access demands. This view is also strengthened due to the inherent benefits of wireless backhaul/X-Haul with regard to performance, ease of deployment, fast time-to-market and cost efficiency.

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Towards European Artificial Intelligence (AI) standards: CENELEC's President

CENELEC's President Dr Bernhard Thies spoke at the European Big Data Value Forum in Vienna. Dr Thies spoke at the session 'Landscape of AI standards', dedicated to analysing how standardization can contribute to building trust and efficiency in the Artificial Intelligence (AI) industry in Europe, while ensuring sustained industry competitiveness. During his presentation, Dr Thies brought forward the European perspective on standardization for the AI.

Based on the needs that emerged during the Workshop, CEN and CENELEC are taking further steps in the field of AI. The first one of these steps consists of the creation of a CEN-CENELEC Focus Group on Artificial Intelligence. The main objectives of the Focus Group will be identifying the CEN and CENELEC Technical Committees that will be impacted by AI and Big Data technologies; acting as a focal point for them and for the European Commission; identifying specific standardization needs for AI; liaising with the European Commission's AI HLEG; and encouraging strengthened European participation in the ISO and IEC's Technical Committees working on AI.

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Member States and Commission to work together to boost artificial intelligence

Delivering on its strategy on artificial intelligence adopted in April 2018, the Commission presented a coordinated plan prepared with Member States to foster the development and use of artificial intelligence in Europe. This plan proposes joint actions for closer and more efficient cooperation between Member States, Norway, Switzerland and the Commission in four key areas: increasing investment, making more data available, fostering talent and ensuring trust. Stronger coordination is essential for Europe to become the world-leading region for developing and deploying cutting-edge, ethical and secure artificial intelligence.

- **Maximise investments through partnerships:** For the next long-term EU budget (2021-2027) the EU has proposed to invest at least €7 billion from Horizon Europe and the Digital Europe Programme in AI.
- **Create European data spaces:** Large, secure and robust datasets need to be available for artificial intelligence technology to be developed.
- **Nurture talent, skills and life-long learning:** Commission, together with European countries, will support advanced degrees in artificial intelligence through, for example, dedicated scholarships. The Commission will also continue to support digital skills and lifelong learning for the whole of society, and especially for workers most affected by artificial intelligence, as detailed in its AI strategy.
- **Develop ethical and trustworthy artificial intelligence:** A European group of experts, representing academia, business, and civil society, is working on ethics guidelines for the development and use of artificial intelligence.
- Related links: Coordinated plan on Artificial Intelligence (AI) Communication

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ETSI helping IoT testing with Test Description Language

The ETSI committee on Methods for Testing and Specifications (TC MTS) keep working on IoT testing with its working group TST. Testing can include, but is not limited to, conformance, interoperability, security and performance testing. The initial technical focus of the TST working group includes IoT network layer (communication protocols, node connectivity, edge computing etc.), IoT layer (data accumulation and aggregation) and application layer (interfaces, business processes etc.). Following the advanced test methodology developed within MTS, it has been decided to apply the structured test objective specification, TDL-TO, ETSI ES 203 119-4, for the definition of test purposes.

Test projects currently cover MQTT, CoAP, LoRaWan and foundational security IoT-Profile of IEC 62443-4-2. The work of MTS-TST is correlated with active Open Source projects currently hosted by the Eclipse foundation. It includes Test purposes in TDL-TO but also TTCN-3 test code developments which are important for test campaign execution in the test labs. The ETSI group is in charge of test purposes developments and uses the resulting Test Purposes definitions for the ETSI technical specifications. This approach enables quick input from active developers and a fast implementation of the target test suites for industry. It also helps accelerate the development of ETSI specifications.

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Political agreement on Cybersecurity Act

The European Parliament, the Council and the European Commission have reached a political agreement on the Cybersecurity Act which reinforces the mandate of the EU Agency for Cybersecurity, (European Union Agency for Network and Information and Security, ENISA) so as to better support Member States with tackling cybersecurity threats and attacks. The Act also establishes an EU framework for cybersecurity certification, boosting the cybersecurity of online services and consumer devices. Proposed in 2017 as part of a wide-ranging set of measures to deal with cyber-attacks and to build strong cybersecurity in the EU, the Cybersecurity Act includes:

- A permanent mandate for the EU Cybersecurity Agency, ENISA, to replace its limited mandate that would have expired in 2020, as well as more resources allocated to the agency to enable it to fulfil its goals, and
- a stronger basis for ENISA in the new cybersecurity certification framework to assist Member States in effectively responding to cyber-attacks with a greater role in cooperation and coordination at Union level.

In addition, ENISA will help increase cybersecurity capabilities at EU level and support capacity building and preparedness. Finally, ENISA will be an independent centre of expertise that will help promote high level of awareness of citizens and businesses but also assist EU Institutions and Member States in policy development and implementation. The Cybersecurity Act also creates a framework for European Cybersecurity Certificates for products, processes and services that will be valid throughout the EU.

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Urban Autonomous mobility: What Role for Standards

CEN and CENELEC held the one-day stakeholder workshop 'Urban Autonomous Mobility: What Role for Standards?' in Brussels. The workshop discussed the multi-sectorial approach needed to address the challenges posed to urban

transport by automated mobility and identified areas and ways in which standards can contribute to providing solutions. Automated Mobility will be one way to resolve many of today's societal challenges, which are particularly evident in cities, such as congestion, air pollution, aging population and urbanization.

The role of standards has also officially been recognised by the European Commission. In its May 2018 Communication 'On the road to automated mobility: An EU strategy for mobility of the future' Based on this conviction, during the workshop participants identified the following priorities for standardization:
Convene all stakeholders, solve interoperability, define a common language and ensure that specifications are understood by all, scaling of solutions and services, ensure safety, maintain user trust, facilitate acceptance by consumers. These priorities will be further addressed and incorporated in their daily work by CEN/TC 278 'Intelligent Transport Systems' (whose Secretariat is held by NEN), CEN/TC 301 'Road Vehicles' and CENELEC TC 9X 'Electrical and electronic applications for railways' (whose Secretariats are both held by AFNOR) in their roadmaps and work programmes.

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ETSI releases specification and reports on next generation IP Protocols

ETSI group on Next Generation Protocol (ISG NGP) has just released a new specification and reports to optimize the performance, efficiency, and scalability of new services proposed for 5G such as network slicing or ultra-reliable low latency communication (URLLC).

- The ETSI report GR NGP 010 entitled "Recommendation for New Transport Technologies" provides an analysis of current transport technologies such as TCP and their limitations.
- The ETSI report GR NGP 011 addresses "End-to-end Network Slicing Reference Framework and Information Model". It describes network slicing and the design principles behind it, as well as the resources used by services in network slices to provide sharing of physical networks across multiple administrative and technology domains with the capacity available to each user being assured.
- The new ETSI specification GS NGP 013 describes "Flexilink: an efficient deterministic packet forwarding in user plane as well as packet formats and forwarding mechanisms".

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oneM2M Release 3: Leading Global IoT Standard Delivers Enhanced Operator Support, New Capabilities for Home and Industrial Uses

oneM2M, the leading global IoT interoperability standard, today announced the publication of Release 3, its third set of specifications. On the menu: dramatically enhanced 3GPP interworking – in particular cellular IoT – and new capabilities to unlock value in industrial and smart home applications. oneM2M's Release 3 enables seamless interworking with these underlying 3GPP network services, in particular NB-IoT and LTE-M, via the 3GPP Service Capability Exposure Function (SCEF). The combination of oneM2M's service layer and 3GPP's underlying network represent a significant move forward for operators in deploying IoT capabilities. Some examples of cellular IoT value add services enabled by oneM2M's Release 3 include:

- IoT Device Enrolment – provides cellular IoT devices connected to an operator's network with proper security credentials, authentication and registration.

- IoT Device Location Tracking – supports current location tracking, stores past device locations and generates notifications to IoT apps.
- Manage Data Delivery Methods – manages data delivery based on schedule and priority of requests.
- Network Communication Pattern Configuration – helps operators proactively manage network resources by anticipating the communication patterns of IoT devices based on input from IoT apps.
- Wake a Sleeping Device – monitors if a device is sleeping and wakes it up to process a request from the app if needed.

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ETSI releases standards for enterprise security and data centre management

ETSI Technical Committee CYBER has recently released a Middlebox Security Protocol specification, Profile For Enterprise Network and Data Centre Access Control, TS 103 523-3, known as Enterprise TLS or "eTLS". This specification was driven by, and fulfils, an industry need to perform vital data centre operations – whilst supporting a recently standardized version of TLS (1.3). Such required operations include compliance, troubleshooting, detection of attacks (such as malware activity, data exfiltration, DDoS incidents), and more, on encrypted networks – functions which are enabled in the presence of TLS 1.3 by eTLS. ETSI creates standards that are driven by industry need. ETSI previously published a Technical Report, ETSI TR 103 421, that recommended providing a series of standards-based solutions to the evolving needs of industry, networks and middleboxes. Part 3 is the first published part of these recommended standards.

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New CENELEC standard: EN 50342-6:2015/A1:2018 – Secondary cells and batteries

From ensuring energy efficiency and thus the respect of the environment to increasing the drivers' safety, batteries have a strategic importance in a car's functioning. It is no surprise, then, that car batteries have a series of specific standards on them, that are constantly developed and updated. Among them, CENELEC has recently released EN 50342-6:2015/A1:2018 'Lead-acid starter batteries - Part 6: Batteries for Micro-Cycle Applications'. This European Standard, part of the EN 50342 series on Lead-acid starter batteries, applies to 'starter batteries' with a nominal voltage of 12 V, used primarily as power source for the starting of internal combustion engines (ICE), lighting and also for auxiliary equipment of ICE vehicles.

The batteries under the scope of this standard are used in so-called Start-Stop vehicles: in cars with this special capability, the internal combustion engine is switched off during a complete vehicle stop or during idling without the need of supporting the vehicle movement by the internal combustion engine. Naturally, if this system allows for an increase in energy efficiency, it requires special types of batteries, as they are stressed in a completely different way compared to classical starter batteries. All batteries under this scope need to fulfil basic functions, which are tested under application of EN 50342-1:2015.

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Commission acts to make standardisation in the Single Market more efficient

The European Commission presents an action plan to enhance efficiency, transparency and legal certainty in the development of harmonised standards for a fully functioning Single Market. Largely voluntary and industry-driven standards - from the A4 paper size to 5G technology via airbags - reduce costs, promote innovation, ensure interoperability between different devices and services, and help companies to access markets. The EU has harmonised standards in a range of areas such as chemicals, construction products, cosmetics, toy safety, medical devices and packaging. With the actions presented today, the Commission responds to the demands of stakeholders and acts to ensure that the European standardisation system meets the challenges of rapidly evolving technological developments, emerging economic trends and growth models while promoting synergies with international and global standards. The Communication provides an overview of the functioning of the European standardisation system, takes stock of the initiatives launched in recent years and presents four key actions that the Commission will immediately undertake to enhance the efficiency, transparency and legal certainty for the actors involved in the development of harmonised standards. More information: Communication on Harmonised Standards

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ETSI IoT week - discussions on agriculture, sport, health and space

The ETSI, IoT Week was held from 22-26 October 2018 at Sophia Antipolis, France. The showcase was indeed a worldwide first: a tractor connected to a car to mitigate the risk of collision on the road and bring down the 400 fatal yearly car accidents caused by farm vehicles that are not visible when coming into the road. Using ETSI's ITS-G5 standard and the oneM2M gateway, the use case demonstrated how standards help provide interoperability between two sectors such as agriculture and automotive. Other showcases proved how products based on the oneM2M platform have evolved from prototypes to commercial applications over the last 5 years. Implemented in all parts of the world, they addressed such diverse domains as smart cities, smart agriculture, automotive, smart home, smart living, testing, smart body area, aquiculture or healthcare. There was also the opportunity to test interoperability with interworking platforms or emerging technologies such as Artificial Intelligence or blockchain. If you want to know more about this exciting week and our high level speakers, see the presentations on our website and click on this link.

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New CENELEC standard: EN IEC 62853:2018: Open systems dependability

Trust and reliability are fundamental characteristics for software systems in the digital era, as they ensure the complex digital infrastructure that powers our environment. To meet these requirements, EN IEC 62853:2018 "Open systems dependability" has just been published, adopting an IEC standard at the European level.

The standard focuses on open systems dependability: according to IEC's definition, dependability is ability of a product to do its job when required and for the duration desired without encountering problems. It consists of continuously maintaining accountability from stakeholders while being able to accommodate changes in purpose, objectives, actual performance and environment in complex software systems. The new CENELEC standard EN IEC

62853:2018 "Open systems dependability" was adopted as European Standard under the work programme of CLC/SR 56 – Dependability. The adoption is identical.

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ETSI TC Cyber releases Report on Quantum-Safe Virtual Private Networks

ETSI's Technical Committee Cyber Security (TC Cyber) has published a Technical Report - TR 103 617 - on Quantum-Safe Virtual Private Networks. The report, developed by TC CYBER Quantum-Safe Cryptography working group, explores protocol requirements necessary to add quantum resistance to VPN technologies, including client, server and architectural considerations. Specifically, requirements around protocols and key establishment are considered based on the multitude of systems that are at risk and require security updates before quantum computers that can attack commercial cryptography are developed. Having explored a number of the requirements and potential solutions to get VPN infrastructures ready for quantum-safety, the report concludes that the transition will be extremely complex and organizations should start migration planning early in order to minimize costs and disruption to their business. The ETSI Technical Report on Quantum-Safe Virtual Private Networks can be downloaded from our website.

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White Papers/Publications

CEN – CENELEC's Work Programme 2019 is available now

CEN and CENELEC published their 2019 Work Programme, which provides an overview of the main standardization developments and strategic priority areas for 2019 across the 14 business sectors and the 3 horizontal topics of activity. Read more/Download

White Paper 'Recommendations for Successful Adoption in Europe of Emerging Technical Standards on Distributed Ledger/Blockchain Technologies' approved by CEN and CENELEC boards

The first White Paper of the European standardization body CEN / CENELEC on 'Recommendations for Successful Adoption in Europe of Emerging Technical Standards on Distributed Ledger/Blockchain Technologies' has been approved by CEN and CENELEC Technical Boards. The White Paper provides 26 recommendations, addresses priority topics such as sustainable development, digital identity, privacy and data protection, and highlights specific European use cases. Read more/Download

ETSI publishes Report on 5G Wireless Backhaul/X-Haul

ETSI's millimetre Wave Transmission Industry Specification Group (mWT ISG) released a new Report, ETSI GR mWT 012, which addresses the prominent 5G backhaul/X-Haul scenarios. It also presents how current microwave and millimetre wave transmission technologies, as well as their foreseen evolution in the pertinent areas of innovation, will satisfy upcoming 5G access requirements. Read more/Download

ETSI released Open Source MANO's latest version

ETSI released the latest version of its Open Source MANO (OSM) project. OSM is an operator-led group working on delivering an open source management and network orchestration (MANO) stack that aligns with ETSI NFV models. The latest code release from the group, Release FIVE, extends its capabilities to help operators toward 5G deployments. Read more/download

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Events Calendar 2019

Cybersecurity standardization

When: 21 January 2019
Where: Crowne Plaza Hotel - Le Palace Brussels, Rue Gineste 3, 1210 Brussels - Belgium [map]
The conference will discuss the remaining challenges in the standardisation landscape for Cybersecurity in light of the new Act. The consequences for policy makers, industry, citizens, certification bodies, and the European Standardization System will be also covered. **For more information please click here**

NG112 Emergency Communications Plugtests #3

When: 28 JANUARY - 01 FEBRUARY 2019
Where: ETSI PREMISES, SOPHIA ANTIPOLIS, FRANCE
ETSI, in cooperation with the European Emergency Number Association (EENA), is organizing the third emergency communications interoperability Plugtests™ event to be held in Europe with the support of ETSI SC EMTEL. This event will be located in the ETSI premises in Sophia-Antipolis from 28 January to 1 February 2019. **For more information please click here**

1st mWT Plugtests

When: 21-24 JANUARY 2019
Where: ETSI PREMISES, SOPHIA ANTIPOLIS, FRANCE
This edition of the Plugtests event will focus on proving the ability of Software Defined Network (SDN) to operate from an end to end service point of view. **For more information please click here**

Remote NFV API Plugtests

When: 4 FEB - 29 MAR 2019
Where: REMOTE
In the context of the NFV Plugtests Programme, ETSI's Centre for Testing and Interoperability is organising a Remote NFV API Plugtests™ during the February-March 2019 timeframe. The Remote NFV API Plugtests will offer NFV vendors and open source projects an opportunity to validate their implementation of NFV SOL APIs. **For more information please click here**

5th OSM Hackfest

When: 04 - 08 FEB 2019
Where: CASTELLDEFELS (BARCELONA), SPAIN
This OSM Hackfest will allow new users to get familiar with OSM Rel FIVE and exercise all the main functionalities, from basic operations (installation, setup, common operations, etc.) to most advanced activities, with a big focus on VNF on-boarding activities covering Day 0/1/2 operations. **For more information please click here**

ITS Cooperative Mobility Services Event 6

When: 25 February - 1 March 2019
Where: Sophia-Antipolis, FR
Sixth edition of ITS CMS Plugtests event will focus on testing ITS Security features in order to support industry in the C-ITS deployment in the common single European trust domain as defined by the European Commission in the Release 1 of the document "Security Policy & Governance Framework for Deployment and Operation of European Cooperative Intelligent Transport Systems (C-ITS)". **For more information please click here**

10th ETSI ITS Workshop

When: 4-6 March 2019
Where: ETSI, Sophia Antipolis, France
The 10th ETSI Workshop on Intelligent Transport Systems (ITS) will provide a status of the ongoing activities to facilitate the deployment of Cooperative ITS, not only in Europe but also around the globe. **For more information please click here**

ETSI Summit on Artificial Intelligence

When: 4 April 2019
Where: ETSI, Sophia Antipolis, France
This year's ETSI Summit will review the current and future applications of Artificial Intelligence, as well as identifying the potential challenges and opportunities of deploying AI massively across the industry. **For more information please click here**

ETSI Workshop on NFV Acceleration Technologies

When: 10 April 2019
Where: Paris, France
ETSI ISG NFV is organizing a half day workshop on NFV Acceleration Technologies on 10 April 2019. The event will be co-located with the 21st edition of the MPLS+SDN+NFV World Congress, in Paris, France. Currently, the group is calling for presentations. It is intended to have the full programme online at the end of January 2019. **For more information please click here**

About Project SESEI 3

The SESEI project (Seconded European Standardization Expert in India) is a project co-funded by five European partners, operating from New Delhi, India, with the objective to increase the visibility of European standardization in India and to promote EU/EFTA-India cooperation on standards and related activities. The SESEI Project (http://sesei.eu/) is managed by the European Telecommunications Standards Institute (ETSI - http://www.etsi.org/ - EU recognized Standards Organization for Telecommunication sectors) and is further supported by two other EU recognized Standards Organization, namely the European Committee for Standardization (CEN) and the European Committee for Electrotechnical Standardization (CENELEC) – http://www.cencenelec.eu- which develop and adopt European standards in a wide range of products, services and processes, as well as by the European Commission (www.ec.europa.eu) and the European Free Trade Association (http://www.efta.int/). It is a Standardization focused project, with a priority emphasis on the sectors of ICT, Automotive, Electronic Appliances including Consumer Electronics and Smart Cities etc.

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