



CEN - European Committee for Standardization

CENELEC - European Committee for Electrotechnical Standardization

ETSI - European Telecommunications Standards Institute

EC - European Commission

EFTA - European Free Trade Association

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Greeting from SESEI



Dear Readers,

At the outset, I would like wish all of you a very happy, healthy & prosperous new year 2017!

We are happy to bring this third Edition of our Project SESEI Newsletter India. In this edition, we have put together latest information, updates and news from the stables of the European standardization bodies & Policy Makers. These important news and articles provide us the relevant learning and keeps all of us abreast with the new and exciting work being carried out in the field of standardization & associated policy matters.

Last quarter, we noticed a great boost to IoT interoperability as [oneM2M](#) standards are now being used by a number of independent open source foundations and projects as the industry looks to accelerate take up of IoT products and platforms. Alongside these open source initiatives, commercial implementations of oneM2M standards have also grown since the first one was announced in December 2014, with the latest companies to adopt the standard including NEC Corporation, LG subsidiary LG CNS, C-DOT, HPE, InterDigital and Sensinov.

During this last quarter, ETSI also published Three Home Gateway Initiative specifications as Technical Specifications, [ETSI TS 103 424](#) dealing with smart home architecture and system requirements, [ETSI TS 103 425](#) which describes requirements for Wireless Home Area Networks (WHANs) supporting smart home services and [ETSI TS 103 426](#) which contains requirements for HGI Open Platform 2.1 regarding modular software deployments on the home gateway. ETSI's Industry Specification Group on Next Generation Protocols (NGP ISG) also announced release of its first specifications [GS NGP 001](#): Next Generation Protocols; defining key scenarios to evolve the current Internet Protocol (IP) suite architecture and addresses the future technologies that will be embedded in next generation networks. Similarly, Open Source MANO (OSM) group announced availability of its [OSM Release ONE](#) focused on helping industry accelerate the implementation of network virtualization. This release ONE has been engineered, tested and documented to allow for rapid installation in operator labs.

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These days, not only in Europe but globally, there is an increased demand for photovoltaic modules, largely due to national incentives which encourage electricity production from renewable energy sources. European Standards support the solar photovoltaic energy systems to be cost effective and an important source of alternate energy generation for utilities. At CENELEC three standards were developed to be applied to all crystalline silicon terrestrial flat plate modules, being the dominant plate used commercially.

Speaking about clean energy, European Commission have proposed new wide-reaching measures to accelerate Europe's transition to a competitive low-carbon economy by improving the regulatory and business environment and boosting investment in clean-energy research and innovation (R&I). Thanks to Energy Efficiency measures put in place by European Commission & standards developed by CEN & CENELEC - Products are now living longer.

European Commission is also actively adopting new measures for a services economy and is seeking input on a Reflection and Orientation paper on Smart Wearables and Consultation paper on Next Generation Internet. It is also worthwhile to note that the European Parliament have approved the directive on making the websites and mobile apps of public sector bodies accessible to people with disabilities. During last quarter, EFTA & INDIA have also resumed talks on Free Trade Agreement.

Finally in the newsletter, we have also provided links to important Policy & Legislation announcement covering roaming and healthcare, White Paper/Publication covering ETSIs paper on Security and Generic Autonomic Networking Architecture Reference, CEN CENELEC work programmes for the year 2017 and event calendar of Europe.

Lastly in our efforts to make the reading of this newsletter more interesting and enjoyable, we have changed the newsletter design to make the news and articles in brief and crispier.

As always, we look forward to your comments and suggestions to further improvise it. Happy Reading once again.

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Boost for IoT interoperability as open source foundations and projects use oneM2M standards

[oneM2M](#), and the Internet of Things (IoT), has revealed its standards are being used by a number of independent open source foundations and projects, in addition to commercial deployments, as the industry looks to accelerate take up of IoT products and platforms. Several open source foundations and projects have been actively using oneM2M standards in various applications and services since the organisation released its first set of specifications in January 2015. oneM2M's Release 2, was published earlier this year.

An e-mail list has been established to answer technical questions from developers and provide a direct link to the experts who wrote the oneM2M specifications. XML code and the oneM2M Application ID registry are additional resources available from [oneM2M](#). All of oneM2M's specifications are available at: <http://www.onem2m.org/technical/published-documents>.

Alongside these open source initiatives, commercial implementations of oneM2M standards have also grown since the first one was announced in December 2014, with the latest companies to adopt the standard including NEC Corporation, LG subsidiary LG CNS, C-DOT, HPE, InterDigital and Sensinov. To view the full list of commercial deployments, visit: <http://www.onem2m.org/news-events/onem2m-deployment-announcements>

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Energy Efficiency - Products living longer thanks to energy efficiency!

In 2015 the European Commission expressed the wish to extend the energy efficiency approach from the use phase of products to their end of life and to regulate aspects such as durability, recyclability, and reparability. The term 'material efficiency' encompasses the concept. Today, EU Ecodesign Regulations are more likely to include material efficiency requirements in addition to regular use phase requirements, and to set thresholds that in the future will be applied during the development of new standards.

In the past CEN and CENELEC have supported the development of dozens of European Standards by providing ad hoc methods for measuring the energy performance of various products in response to standardization requests issued by the European Commission, thereby supporting the implementation of Directive 2009/125/EC on ecodesign of energy-related products.

Stay tuned for dedicated article on ecodesign related to material efficiency: M/543. For More about [standardization activities in the field of ecodesign](#)

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European Commission seeks input on a Reflection and Orientation paper on Smart Wearables

Smart wearables offer an unprecedented capability to assist people to manage their daily or professional activities in a safer, healthier and more-efficient manner. Moreover, combined with internet and data technologies, wearables offer a transformative power which can re-shape the organisation of social and economic activities in the modern society.

Smart wearables provide technology-based solutions to pressing societal and economic challenges in the areas of healthy ageing, elderly care, emergency management, safety at work, productivity enhancement, training of professionals, energy management of homes and others.

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Home Gateway Initiative smart home specifications by ETSI

Three Home Gateway Initiative specifications have been published as Technical Specifications by ETSI.

The three specifications are [ETSI TS 103 424](#), which deals with smart home architecture and system requirements, [ETSI TS 103 425](#) which describes requirements for Wireless Home Area Networks (WHANs) supporting smart home services and [ETSI TS 103 426](#) which contains requirements for HGI Open Platform 2.1 regarding modular software deployments on the home gateway. They are available <http://www.homegatewayinitiative.org/links>

These three specifications from the HGI are the first to be published by ETSI under its recently revised PAS process. Further [information on the PAS process is available on the ETSI website](#)

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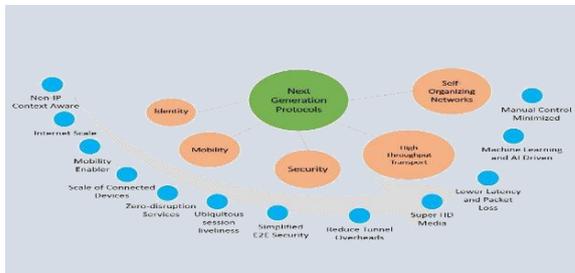
Automotive industry: the revised international standard IATF 16949 is released

The new version of the voluntary international standard IATF 16949 has just been published. The requirements of this international standard, which addresses quality management in the automotive sector, have now been aligned with ISO 9001:2015.

Certified companies must successfully transition to the new version by 14 September 2018. The revision of this bestselling international standard was prompted by the IATF (International Automotive Task Force) as part of its close collaboration with ISO (International Organization for Standardization).

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ETSI Next Generation Protocols group releases first specification



In October 2016, the ETSI Industry Specification Group on Next Generation Protocols (NGP ISG) announced the release of its first specifications, [GS NGP 001](#): Next Generation Protocols; Scenarios Definitions.

This document defines key scenarios to evolve the current Internet Protocol (IP) suite architecture and addresses the future technologies that will be embedded in next generation networks. The aim is to provide all stakeholders with harmonized requirements that will be suitable for multi-access communication including wireless, wired and cellular

communications.

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Making an energy cocktail with sun rays!

These days, not only in Europe but globally, there is an increased demand for photovoltaic modules, largely due to national incentives which encourage electricity production from renewable energy sources. European Standards support the solar photovoltaic energy systems to be cost effective and an important source of alternate energy generation for utilities. The following standards were developed to be applied to all crystalline silicon terrestrial flat plate modules, being the dominant plate used commercially.

EN 61215-1-1:2016, 'Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) Modules', identifies requirements for durable terrestrial photovoltaic modules in terms of the design qualification and type. It also determines electrical and thermal characteristics of a photovoltaic module which can endure lengthy exposure in varied climates.

EN 61215-1-1:2016 together with EN 61215-1:2016, 'Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1: Test requirements', and EN 61215-2:2016, 'Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 2: Test procedures', will replace the previous standard, EN 61215:2005, 'Crystalline silicon terrestrial photovoltaic (PV) modules - Design qualification and type approval'.

EN 62788-1-2:2016, 'Measurement procedures for materials used in photovoltaic modules - Part 1-2: Encapsulants - Measurement of volume resistivity of photovoltaic encapsulants and other polymeric materials', provides a method and guidelines for measuring the volume resistivity of materials used as encapsulation, edge seals, front-sheets, backsheets, or any other insulating material in a photovoltaic (PV) module.

For more information [CENELEC's work on solar photovoltaic energy system](#)

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New actions to boost research and innovation for the clean-energy transition

The European Commission is proposing new wide-reaching measures to accelerate Europe's transition to a competitive low-carbon economy by improving the regulatory and business environment and boosting investment in clean-energy research and innovation (R&I). The Communication on **Accelerating the Clean-Energy Innovation** adopted as a key component of a bigger **package of initiatives** adopted today by the Commission for accelerating the completion of the Energy Union. Research and innovation are one of the pillars of the Energy Union.

The strategy recognises that meeting the EU's objectives for the clean-energy transition requires mobilisation at all levels: the private sector, national and regional authorities as well as universities and the research community. The growing role of cities and of individual choices by consumers is also highlighted. More information: [Clean Energy for All Europeans proposals](#)

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New measures on services, data economy and health and safety



The Commission adopted measures for a services economy that works for Europeans, proposed a digital, data economy and privacy package, and took steps to protect workers' health and safety. The ambitious and balanced package of measures adopted today by the Commission will make it easier for companies and professionals to provide services to a potential customer base of 500 million people in the EU.

The four concrete initiatives adopted by the Commission today are: A new European Services e-card to make it easier for providers of business and construction services to provide services abroad; A proportionality assessment of national rules on professional services, to streamline and clarify how Member States should adopt or amend national rules on professional services; Guidance for national reforms in regulation of professions; Improved notification of draft national laws on services.

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ETSI IoT-M2M workshop: approaching a smarter world



Digitization of the world is not a dream, it's already happening for many of us. This new reality lay behind the discussions at the recent ETSI IoT and M2M workshop, which took place from 15 to 17 November 2016. The event focused on the smart world and especially on smart cities. The workshop, was preceded by a half-day session on **“When Standards Support Policies: the case of IoT and the digitization of industry”**, and a one-day tutorial on oneM2M for developers.

The European Commission outlined its European urban platform initiatives which address the needs of cities. It highlighted the need for an open common reference architecture for IoT, enabling the integration of the different vertical services present in the city. In addition to oneM2M and ETSI SmartM2M standardization activities, ETSI has also created a working group on sustainable digital multiservice cities. Presentations in the smart city track introduced real life implementations from the city of Bordeaux in France, Murcia in Spain, Greenwich in the UK and several towns in Korea. These cities highlighted the need for technical expertise and advice on the selection and use of standards, in addition to funding to initiate smart cities projects.

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ETSI Open Source MANO Release ONE now available



ETSI's Open Source MANO (OSM) group has announced the availability of its [OSM Release ONE](#), an open source Management and Orchestration (MANO) software stack closely aligned with ETSI NFV, and focused on helping industry accelerate the implementation of network virtualization.

The OSM community aims to deliver a production-quality open source MANO stack that meets the requirements of commercial NFV networks. Available less than six months since the inaugural meeting of the OSM community, Release ONE has been engineered, tested and documented to allow for rapid installation in operator labs. Highlights of the list of technical features in Release ONE include:

- Natively supported VIMs: VMware™, OpenStack and OpenVIM

- Support for reference SDN Controllers, such as OpenDayLight (ODL) and FloodLight
- A plugin model to facilitate the addition of new types of VIMs and SDN Controllers, thus minimizing developer effort
- Multi-site Network Services, to respond to operator requirements, allowing deployments that span across multiple datacenters
- A one-step installer, based on containers and Juju modelling, to simplify testing, customization and deployment of OSM
- Extended virtualized network functions (VNF) and network service models, allowing Day-Zero VNF configuration

OpenVIM code, included as part of the OSM install, providing a reference VIM for all-in-one installations with full support of Enhanced Platform Awareness. Uniquely, users are not required to have a pre-existing VIM installation in their premises before installing OSM. The list of the OSM members and participants is available

<https://portal.etsi.org/TBsiteMap/OSM/ListofOSMMembers.aspx> . To learn more about OSM, please visit osm.etsi.org.

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EFTA and India resume free trade negotiations



During their 14th round of negotiations, held from 26 to 28 October 2016 in Geneva, delegations from the EFTA States and India continued talks towards a comprehensive free trade agreement.

The free trade negotiations started in October 2008 and 13 rounds were held until November 2013. Chief Negotiators decided to resume negotiations earlier this year, having taken stock of their status. During this 14th round, experts from both sides held targeted discussions on outstanding

issues regarding trade in goods, trade in services, rules of origin and intellectual property rights.

State Secretary Marie-Gabrielle Ineichen-Fleisch from Switzerland acted as EFTA Spokesperson, while Anita Praveen, Joint Secretary in the Department of Commerce, led the Indian delegation. Both sides agreed to continue negotiations with a view to concluding an agreement in the near future. The next round of negotiations will be held in New Delhi in early 2017.

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Energy from waste and biomass fuels: an innovative method to prevent climate change

Natural disasters during recent decades have brought about increased awareness of the need for action on climate change at all levels, requiring some radical re-thinking of energy policy. But how? AFNOR UK launches a training course on energy from waste & biomass fuels. The COP 22 in Marrakesh reminds us on the fact that greenhouse gases contribute to climate change. The two most serious examples are carbon dioxide from combustion systems and methane gas escaping into the atmosphere from waste landfill sites and other sources. Environmentally action must be taken to curb the effects of these gases. Decades of research and redesign have produced the modern Energy-From-Waste plants and small-scale biomass fired power plant now being installed worldwide.

Several standardized variations of waste fuels are being developed and supplied in useful quantities. These processed materials present a more uniform and controllable fuel to a combustion process. Removing undesirable elements before

combustion takes place simplifies the control of emissions. Similarly, Synthetic fuel oils and gasses are becoming widely available for use in diesel engines and gas turbine plant. Some of these fuels are called:

- RDF (Refuse Derived Fuels) from Municipal and Industrial Solid Waste (MSW)
- SRF (Specific Recovered Fuels) from thermally treated waste products, such as Plastics etc.
- Bio-oil and Syngas.

[More on “Energy from waste and biomass fuels” course...](#)

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Consultation on Next Generation Internet

The European Commission is preparing the Next Generation Internet Initiative. An open consultation was launched to give everyone the chance to share their views and ideas about the Internet of 2030. See also [Next Generation Internet](#)

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The adoption of a directive on the accessibility of the sector bodies' websites and mobile apps

On 26 October 2016 the European Parliament approved the directive on making the websites and mobile apps of public sector bodies more accessible. This means that people with disabilities - especially persons with vision or hearing impairments - will have better access to the websites and mobile applications of public services.

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Policy and Legislation

Roaming implementing regulation

The text lays down detailed rules on the application of fair use policy and on the methodology for assessing the sustainability of the abolition of retail roaming surcharges and on the application to be submitted by a roaming provider for the purposes of that assessment. This act, adopted on 15 December 2016, has not yet entered into force. It will be published in the Official Journal of the EU on 17 December 2016, and enter into force 20 days after its publication.

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eStandards publishes guideline for interoperability standards in healthcare

The EU-funded eStandards project has published a guideline for good practice in developing or harmonising clinical content, in order to make the content interoperable and standardised. Comments on the guideline can be made until 15 January.

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White Papers/Publications

ENISA's National Cyber Security Strategy Good Practice Guide

ENISA published its first National Cyber Security Strategy (NCSS) Good Practice Guide in 2012. Since then, EU Member States and EFTA countries have made great progress in developing and implementing their strategies. This guide is updating the different steps, objectives and good practices of the original guide and analyses the status of NCSS in the European Union and EFTA area. The aim is to support EU Member States in their efforts to develop and update their NCSS.

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CENCENELEC Work Programme for the Year 2017

This publication provides an overview of the most significant standardization activities to be developed this year in all of the different fields and sectors that CEN and CENELEC are addressing. To download the work programme [please click here](#)

CEN and CENELEC position on the EC Communication 'EUROPEAN STANDARDS FOR THE 21ST CENTURY'

On 1 June 2016, The European Commission released the Communication 'European Standards for the 21st Century'¹ as part of the 'Standardisation package'. The Communication provides a vision for a single and efficient European standardization system, as well as a framework for the Joint Initiative on Standardisation (JIS)², and linking with the EC Communication on 'ICT Standardisation Priorities for the Digital Single Market'³. [Read More](#)

ETSI White Paper on: TACKLING THE CHALLENGES OF CYBER SECURITY

This White Paper provides an overview of all of ETSI's work related to Cyber Security and outlines some of their targets and aspirations for coming years. The White papers covers key areas i.e. The Internet of Things (IoT), eHealth, Trust Service Providers, Secure Cards and Elements, Cryptography, Network Functions Virtualization, Lawful Interception, and Data Retention **To down load please [click here](#)**

ETSI's White paper on GANA - Generic Autonomic Networking Architecture Reference Model for Autonomic Networking, Cognitive Networking and Self-Management of Networks and Services

This white paper primarily covers the following topics and objectives:

- Understanding the core concepts of the GANA reference model as the first standard that translates the industry requirements in terms of need for dynamic/adaptive autonomic management & control of networks and services and the need to define the abstraction levels at which closed control-loops can be designed and interworked in a hierarchical and nested fashion;
- Answers to the question: to whom is the GANA Model addressed?
- Understanding how to apply the GANA reference model to well-known architectures (3GPP, BBF, etc.) using the GANA Implementation Guide;
- Insights on how to integrate/interwork the GANA model and complementary paradigms such as SDN, NFV, E2E orchestration of resources and services, Big Data analytics applications for AMC; and Insights on how the GANA model should play a vital role in the white box networking paradigm **To down load please [click here](#)**

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Events Calendar 2017

1st NFV PLUGTESTS

23 January to 3rd February 2017, at Leganes, near Madrid, Spain

ETSI Centre for Testing and Interoperability will be organizing its first NFV Plugtests™ event on 23 January to 3 February 2017, hosted by 5TONIC Laboratory in Leganes, near Madrid, Spain.

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ETSI Summit on 5G Network Infrastructure

6 April 2017, ETSI, Sophia Antipolis, France,

This year's ETSI Summit will offer a unique opportunity to tackle the many open questions relating to the 5G network infrastructure and the multiple technological developments that will be necessary to meet the requirements of 5G. Standardization plans have been carefully set and work is already progressing. But we have mainly focused on the radio technologies needed for 5G. What about the network behind the radio access system? How will the 5G network infrastructure help to meet the overall 5G system requirements, and is it even fit for purpose? The ETSI summit on 5G Network Infrastructure will take place on 6 April 2017 in ETSI, Sophia Antipolis, France.

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Energy storage in the Energy Union: The standards we need

When: Wednesday 8 March 2017 from 08:45 to 16:15 (CET)

Where: Brussels, CEN-CENELEC Management Centre

Programme: [draft programme is available](#)

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About Project SESEI 3

SESEI stands for “Seconded European Standardization Expert in India” and is a 5 partner’s project based in New Delhi, India, with the objective to increase visibility of European standardization and promote EU/EFTA-India cooperation on standards and related issues. The Project is managed by the European Telecommunications Standards Institute (ETSI), a European Union recognized Standards Organization, and is further supported by the other two other recognized EU Standards Organizations CEN and CENELEC. The other two partners to this Project are the European Commission and the European Free Trade Association. It is a Standardization focused project, with a priority emphasis on the following sectors: ICT, Automotive, Electronic Appliances including Consumer Electronics and Smart Cities etc.

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