

## International Update

International and regional items of interest for October 2017 are as follows:

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ISO items of interest for October 2017 are as follows:

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IEC items of interest for October 2017 are as follows:

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**\*\* For further information about any article please email: [mail@standards.org.au](mailto:mail@standards.org.au)**

## International

### 1. Upcoming IEC-ISO-ITU World Smart City Forum Barcelona 2017

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Registration is open for this year's World Smart City Forum in Barcelona on November 15, 2017. Leaders from across the globe will be attending in conjunction with the IEC, ISO and ITU, to discuss the rapidly evolving world of Smart Cities. Barcelona, a world leader in the smart cities industry, is hosting this year's event in parallel to the Smart City Expo World Congress. The event looks to bring together leading innovators and policy setters to discuss the potential future for efficient, economically viable and sustainable cities.

The forum will be attended by a number of Australian stakeholders who presented on Friday 13 October 2017 when Standards Australia hosted A Forum for World Standards Day – Future Cities: Smart, Connected and Sustainable. The forum was held to coincide with this year's World Standards Day, which had the theme 2017, *Standards Make Cities Smarter*. It was attended by 40 delegates from local and state government, the Smart Cities Council of Australia and New Zealand, the Internet of Things Alliance Australia and a broad range of other invested parties in the Smart Cities industry.

To find out more visit the event website: <http://www.cvent.com/events/world-smart-cities-forum-2017/event-summary-4b48256f68c240a39c4576ce295121ac.aspx>

### 2. Azevêdo underlines growing importance of services in global trade

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Speaking at the Global Services Summit in Washington D.C. on 17 October 2017, Director-General Roberto Azevêdo highlighted that trade in services accounts for almost 50 per cent of world trade today. He said that updating rules for trade in services is one of a wide range of issues currently being discussed by WTO members and he looked forward to working with a variety of stakeholders, including the private sector, "to build a stronger trading system — which supports the services industry and continues to promote growth, development, and job creation everywhere".

He opened with this:

'Ladies and gentlemen, Good morning. At the outset, let me thank the Coalition of Services Industries for the kind invitation. It's a great pleasure to be with you today.

The CSI is an important and constant partner of the World Trade Organization.

You played an essential role in putting services on the multilateral trade agenda back in the 1980s – so you helped to ensure that they became part of the WTO architecture. And I am glad to strengthen that partnership today.

In these ways, and more, services are the heart of our lives and livelihoods. They generate more than two-thirds of global GDP. And attract almost two-thirds of global FDI.

For the great majority of countries, the services sector accounts for the greatest share of domestic production and employment. In the US, for example, the sector generates more than 75 percent of employment.

And I think that the importance of services will only increase.

Automation, digitization and new business models are revolutionising the global economy.

To read the full speech, visit: [https://www.wto.org/english/news\\_e/spra\\_e/spra193\\_e.htm](https://www.wto.org/english/news_e/spra_e/spra193_e.htm)

### 3. International delegates attending ISO and IEC meetings

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Similar to the IEC Meeting Registration System (MRS) that has been in place for a number of years, ISO has recently released a new ISO Meeting Platform. This meeting platform became mandatory for delegates use as of October 1 2017. The platform provides a central database for all details of meetings for delegates and a tool that provides a consistent system for registration for meetings. It is used across the ISO committee structure – for technical committees, subcommittees and working groups – whether attending in person or by webex.

Any Australian delegates attending meetings should first discuss their attendance with the relevant Project Manager who will arrange their endorsement and briefing with the Australian mirror group. An international nomination and funding webform should then be completed (<https://forms.standards.org.au>)

Standards Australia will register you directly on the ISO Meeting Platform for any Technical Committee (TC) or Subcommittee (SC) meetings a delegate has been endorsed to attend, this serves as a delegate's formal accreditation to attend the TC and/or SC meeting. If a delegate is attending any Working Group Meetings or other social events the delegate should register directly for these meetings directly on the platform: <http://sd.iso.org/meetings>.

Further information on all ISO Electronic Applications can be found online: <https://www.iso.org/it-tools-for-standards-development.html>.

For any questions or additional information, please email [international.participation@standards.org.au](mailto:international.participation@standards.org.au)

## ISO

### 1. A New Work Item Proposal – Water Efficient Products – Banding

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Standards Australia has put forward a New Work Item Proposal to ISO on **Water Efficient Products – Banding**.

The scope of the proposed new work is as follows:

*To develop an international standard for Water Efficient Products - Test Requirements, Water Efficiency Banding to indicate water efficiency of water-using fittings and appliances, for consumer labelling and other purposes, based on relevant standards and requirements from Australia and supporting countries and other ISO members' national standards.*

*The scope of the ISO standard will cover the following:*

- *Water efficiency bandings for the specified plumbing products and appliances.*
- *Key test requirements for individual plumbing products and appliances and determination to derive a water efficiency banding.*

*The ISO band classification table can be added to each country's own water efficiency label design.*

- It is proposed that a new Project Committee be developed to manage this work
- Standards Australia has received strong support from Australian stakeholders in putting together this initiative and is appreciative of all contributions.

If you would like any further information please contact Stakeholder Engagement Manager, Brett Lovett, [brett.lovett@standards.org.au](mailto:brett.lovett@standards.org.au).

### 2. A New Work Item Proposal – Indirect, temperature-controlled refrigerated delivery services – Land transport of parcels with intermediate transfer

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ISO has received a New Work Item Proposal from Japan (JISC) on **Indirect, temperature-controlled refrigerated delivery services – Land transport of parcels with intermediate transfer**.

The scope of the proposed work is as follows:

*This standard specifies requirements for the provision and operation of indirect, temperature-controlled refrigerated delivery services for refrigerated parcels (which might contain temperature-sensitive goods like food, plants, chemical products and cosmetics) in land transport refrigerated vehicles. It includes all refrigerated delivery service stages from the acceptance (receipt) of a refrigerated parcel from its delivery service user all the way to its delivery at the designated destination, including intermediate transfer of the refrigerated parcels between refrigerated vehicles and via geographical routing. This standard also includes requirements for resources, operations and communications to delivery service users. It is intended for application by refrigerated delivery service providers.*

*It does not cover requirements for refrigerated parcel delivery via the modes of transport by airplane, ship and train. It also does not cover separate requirements for refrigerated parcels that may be transported in ambient temperatures due to the fact that they contain their own refrigeration materials (e.g. ice packs, refrigerated foam bricks, dry ice blocks) and are surrounded and enclosed by sealed thermoprotective packaging that creates a separate refrigerated climate to that provided within the delivery service. However, these types of refrigerated parcels may be transported through a refrigerated delivery service.*

*It does not cover direct refrigerated courier services in which refrigerated parcels are collected from the delivery service user and transported directly to a recipient without in-transit transfer. It does not cover requirements for the quality or specifically for measuring the temperature of the contents of the refrigerated parcels being delivered and their pre-point of receipt state, but does set the*

requirements for the refrigerated delivery service carrying them. It also does not cover the transport of medical devices and medical equipment.

- The British Standards Institute (BSI) produced a Publicly Available Specification on this subject matter in early 2017, creating the basis for this international standard proposal
- It is proposed that a new Project Committee (PC) be established in order to take on the intended work.

Standards Australia will be consulting with stakeholders on this proposal. For more information or to make a submission, please contact the relevant Stakeholder Engagement Manager, Jon Avery [Jonathon.avery@standards.org.au](mailto:Jonathon.avery@standards.org.au) by Monday, 23 November 2017.

### 3. A New Work Item Proposal – Consumer Protection: Privacy by design for consumer goods and services

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ISO has received a New Work Item Proposal from COPOLCO through the British Standards Institute (BSI) on **Consumer Protection: Privacy by design for consumer goods and services**.

The scope of the proposed work is as follows:

*Specification of the design process to provide consumer goods and services that meet consumers' domestic processing privacy needs as well as the personal privacy requirements of Data Protection.*

*In order to protect consumer privacy the functional scope includes security in order to prevent unauthorized access to data as fundamental to consumer privacy, and consumer privacy control with respect to access to a person's data and their authorized use for specific purposes.*

*The process is to be based on the ISO 9001 continuous quality improvement process and ISO 10377 product safety by design guidance, as well as incorporating privacy design JTC1 security and privacy good practices, in a manner suitable for consumer goods and services.*

The objective of the proposed standard is to:

- Provide product designers and providers with means to provide consumer protection from privacy invasion
- Address the privacy needs of the consumer that have been identified by COPOLCO (the ISO Committee on Consumer Policy)
- It is proposed that a new Project Committee (PC) be established in order to take on the intended work.

Standards Australia will be consulting with stakeholders for this proposal. For more information or to make a submission, please contact the relevant Stakeholder Engagement Manager, Brett Lovett [brett.lovett@standards.org.au](mailto:brett.lovett@standards.org.au) by Monday, 23 November 2017.

### 4. New ISO standard to combat land degradation

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Our consumption of the earth's natural reserves has doubled in the last 30 years and a third of the planet's land is now severely degraded. There is an urgent need to find solutions for land management policy, planning and practices.

A new ISO standard will help land managers at global and national scales put in place best practices to combat land degradation. The recently published ISO 14055-1:2017, *Environmental management – Guidelines for establishing good practices for combatting land degradation and desertification – Part 1: Good practices framework*, provides guidelines for developing good practices to combat land degradation and desertification in arid and non-arid regions.

The standard refers to actions or interventions undertaken with the purpose of preventing or minimizing land degradation or, where land is already degraded, aiding its recovery to improve productivity and ecosystem health.

Managing our land-based capital impacts directly on human livelihood and health, the standard covers the various topics that must be considered when establishing good practices, such as the respect for human rights, forest management and agricultural practices, climate conditions and industrial activities, among others.

ISO 14055-1 will serve as a useful tool for land managers, land users, technical experts, and private and public organizations, as well as for policy makers involved in the management of land resources for ecological, productivity, economic or social purposes. It advocates a fundamental shift in behaviour towards a more sustainable use of land and is intended to complement and support the activities of the United Nations Convention to Combat Desertification (UNCCD).

ISO 14055-1 and its complement, the future ISO/TR 14055-2, which provides regional applications of the principles in Part 1, will help to achieve the United Nations Sustainable Development Goal 15 for the protection, restoration and sustainable management of land-based ecosystems. In doing so, we can hope to reach a “land-degradation-neutral world” by the year 2030.

Standards Australia is a P-Member of ISO TC 207 *Environmental Management*, the committee responsible for the development and maintenance of ISO 14055.1:2017.

Source: <https://www.iso.org/news/ref2233.html>

## 5. Use of ISO management system standards continues to rise in Australia and worldwide

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The number of valid certificates to ISO management system standards (MSS) rose 8 % in 2016 compared to 2015, according to latest figures of the ISO Survey.

The ISO Survey is an annual survey of valid certifications to ISO management system standards issued by accredited certification bodies worldwide. It is the most comprehensive overview of certifications to these standards currently available.

A total of 1 643 523 valid certificates were recorded across nine standards compared to 1 520 368 in 2015 (an increase of 8 %), with a further 834 certificates across two new additions to the survey bringing the 2016 total to 1 644 357.

The ever-popular ISO 9001, Quality management systems – Requirements, and ISO 14001, Environmental management systems – Requirements with guidance for use, were up 7 % and 8 % respectively, with 1 106 356 and 346 189 certificates issued, while more recent additions to the survey, such as ISO 50001 for energy management and ISO/IEC 27001 for information security, rose by 69 % and 21 % respectively, amassing 20 216 and 33 290 certificates worldwide.

For the 2015 versions of ISO 9001 and ISO 14001, the survey contains separate tables to show how many of the certified organizations have already taken the step of updating their certification to the newest versions.

Two additional standards were included in the ISO Survey this year – ISO 28000, Specification for security management systems for the supply chain, and ISO 39001, Road traffic safety (RTS) management systems – Requirements with guidance for use – due to data from accredited sources now being available.

As ISO does not perform certification, the figures in the ISO Survey represent the number of valid certificates reported to ISO by accredited certification bodies as at 31 December 2016.

Australia has adopted ISO 9001, ISO 14001 and ISO 27001.

Source: <https://www.iso.org/news/ref2228.htm>

## IEC

### 1. IEC General Meeting 2017 Recap

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The 81<sup>st</sup> IEC General Meeting opened on Monday 9<sup>th</sup> October 2017, at the Far Eastern Federal University (FEFU) in Vladivostok, Russia. The Australian delegation comprised Ian Oppermann, Kim Craig, Jonathan Avery and Simona Tomevska, and more than 20 other Australian delegates participating in various technical meetings throughout the week. Amongst the delegates were Gonzalo Kaempfe and Tara-Lee MacArthur, who participated in the IEC Young Professionals Program (YPP). Mike Wood, the Australian chair of IEC TC 106, also supported the YPP during the week by facilitating a number of workshops for the program.

In addition to the IEC GM, Australia hosted the traditional Australia/New Zealand welcome dinner, and co-hosted the APEC Reception, an informal gathering aimed at fostering regional bonds and strategic alignment with our Asia-Pacific partners. Australia also held a number of bilateral meetings with key partners, namely Japan, Singapore, Gulf States Organisation, the United Kingdom, Sweden and Canada. These bilateral meetings strengthen ties, but also allow a forum to discuss common concerns particularly in relation to the proposed IEC budget.

The Australian National Committee remains deeply committed to both the technical and governance work of the IEC, and endorsed Ian Oppermann to run for election as the IEC Treasurer. Ian was regrettably unsuccessful in his bid for this IEC Governance role. Australia wishes the Belgian candidate and incoming treasurer, Jo Cops, every success in his new role.

While many issues were discussed, there were two topics of particular focus at this year's IEC Council Session on Friday the 13<sup>th</sup> Oct:

#### IEC Budget

During the IEC Council meeting, several countries raised concerns regarding the approval of the budget and improving transparency and oversight of the IEC budget. Prior to the Council Meeting, the IEC General Secretary Frans Vreeswijk circulated a letter outlining the IEC's targeted responses to member countries concerns. The budget was approved by the Council, amid a confirmed commitment by IEC CO to greater openness in IEC operations more generally.

#### Masterplan

The Masterplan will provide guidance to the IEC management bodies (SMB, CAB etc.), the NCs and Central Office, on the future direction of the IEC. At the Council Board (CB) meeting in Vladivostok, a new Task Force was established comprising CB members and NC Presidents to finalise the Implementation Plan of the Masterplan, to be endorsed by both the Council Board and the Council.

### 2. Vertical Edge Intelligence – new IEC White Paper just released

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*To enable and realize the true value of the Internet of Things (IoT), edge intelligence pushes processing for data intensive applications away from the core of the cloud to the edge of the network. This radical transformation will support trillions of sensors and billions of systems. Edge intelligence will treat data in motion differently from data at rest.*

Mr. Yun Chao Hu, Senior Director Strategies, Standardization and Industry Development at Huawei Technologies Co., Ltd, states

“We are very pleased with the publication of the IEC White Paper on Edge Intelligence. It is evident that electrotechnology is undergoing a digital transformation which goes well beyond connectivity and requires evolved data processing. The demand of real-time networking also requires real-time decision making based on data retrieved within the electrotechnical solutions. Therefore, the combination of edge



computing with machine learning, data processing and (cyber) security capabilities into “edge intelligence”, will contribute towards the provisioning of artificial intelligence close to where the data is collected. This will drive new business and technology opportunities for the whole market. The White Paper calls for an extended role of the IEC in this area and in establishing test beds to solicit industry feedback on the IEC specifications and interoperability with open source implementations.”

This White Paper synthesizes current trends in the areas of cloud-computing, mobile networking, IoT and other domains that require low delay in communication and decision. Such domains include for example smart manufacturing, video analysis for security and safety, automotive, intelligent city furniture or virtual reality.

The publication explores market potential and vertical use-case requirements, analyzes gaps and produces recommendations for adopting vertical edge intelligence technologies.

The White Paper was developed by the IEC Market Strategy Board (MSB), which brings together Chief Technology Officers (CTOs) of major technology companies in collaboration with the Fraunhofer Institute for Open Communications Systems, FOKUS NGNI, of Germany.

The White Paper can be downloaded or ordered from: <http://www.iec.ch/whitepaper/edgeintelligence>

### 3. Why testing products against International Standards is so important

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Today, many devices and services found in homes, hospitals, the workplace and industry run off electricity. If they don't function correctly, they can be dangerous. They may cause explosions, fires or electrocute users or anyone who comes into contact with them, or damage property.

IECEE, the IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components, tests and certifies electrical and electronic equipment. Its Certification Body (CB) Scheme provides the assurance that tested and certified electrical equipment – and its components – meets the strictest levels of safety and performance in compliance with the relevant IEC International Standards.

IECEE CB test certificates issued are expected to exceed 100 000 in 2017, with a total of 96 954 in 2016. The System currently has 53 participating countries, 78 national certification bodies, 504 testing laboratories and over 2 200 client testing facilities.

Take a look back at the year of conformity assessment activities at IECEE, in e-tech article [The importance of testing against International Standards](#).

Source: <https://blog.iec.ch/2017/09/why-testing-products-against-international-standards-is-so-important/>

### 4. Winners of 2017 Thomas A. Edison Awards for Exceptional Achievement Announced

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At the 81st IEC General Meeting in Vladivostok, the following persons were presented with the 2017 Thomas A. Edison Award:

- Mr Joe Gryn, Chair of the IECEE PAC
- Mr Kyung-Tae Kang, Secretary TC 119
- Mr Joseph Musso, Secretary TC 72
- Mr Fumio Ueno, Chair TC 105

- Mr Uberto Vercellotti, Past Chair TC 89
- Mr Alexander Zalogin, Vice-Chair of the IECEx
- Mr Peter Zwanziger, Past Chair TC 22

The Thomas A. Edison Award was established in the spirit of Thomas Alva Edison, 1847-1931, one of the greatest inventors in history. Edison developed a system of electric power generation and distribution which was a major break-through in the modern industrialized world. His over 1'000 patents included improving the incandescent lamp, film projection and sound recording, which still have an impact on our daily lives. "Genius is 1 % inspiration and 99 % perspiration" is one of Edison's most famous quotes.

**Joe Gryn, Chair IECEE Peer Assessment Committee**

Joe Gryn has been involved in IEC conformity assessment work in the CAB (Conformity Assessment Board) and in IECEE and IECEx for over 20 years, serving as Member, Chair, Vice-Chair or Convenor of a number of committees and working groups. Joe Gryn has been an active contributor both at the strategic and operational levels and has directly impacted the development and growth of the IEC Conformity Assessment (CA) Systems and in particular of IECEE. He is a frequent speaker at international seminars and workshops, where he promotes the role of the IEC and CA Systems in international trade.

**Kyung-Tae Kang, Secretary TC 119**

As Secretary of TC 119, Kyung-Tae Kang has been instrumental in the establishment of five important International Standards and one Technical Report to help advance the usability, safety and performance of printed electronics. Although a relatively new technology, printed electronics has already proven a disruptive, yet creative process that allows the production of new low-cost electronic devices. It is transforming the electronics industry and many other domains. For many wearable devices, printed electronics provide much needed flexibility. The IoT (Internet of Things) is a good example of a cluster of technologies that is attracting widespread industrial interest and printed electronics represent a substantial enabling opportunity for a number of application areas.

**Joseph Musso, Secretary TC 72**

An increasing number of connected appliances are controlled from a distance using ever smaller electronic controls. They open and shut blinds, windows and vents to control temperature. They also operate fans, dampers, valves and pumps so that water or air can flow in heating and cooling systems. Their operation is triggered by timers or sensors that react to light, temperature or humidity levels. A key requirement is that these controls operate when called for and do so securely without the danger of being hacked.

Joseph Musso has fundamentally transformed the way in which TC 72 operates and delivers its important work. With his calm and professional demeanour he has facilitated communication with other technical committees, ensuring cooperation and balancing country participation and influence in standardization work.

**Fumio Ueno, Chair TC 105**

As the Chair of TC 105, Fumio Ueno has led the standardization of fuel cells and related technologies and contributed significantly to the advancement of the technology. Fumio Ueno has successfully overseen the development of important Standards that facilitate fuel cell product commercialization and market penetration by closely interacting with the market as the technology evolved from the lab to the real world. One of his most remarkable achievements was the negotiation with the International Civil Aviation Organization (ICAO) to allow methanol fuel inside passenger cabins. This resulted in a platform for micro fuel cells in commercial products. Fumio Ueno also served as the convenor of the first Systems Evaluation Group in the IEC dedicated to smart cities and is now the Chair of the recently founded Systems Committee on smart cities.

**Uberto Vercellotti, Past Chair TC 89**

Fire safety is a concern in every geographical region. TC 89 establishes global methods and guidance for assessing fire hazards in electrical and electronic products. The aim is to prevent ignition caused by electrically energized components and confine fires within the bounds of the enclosure. Uberto Vercellotti served as Chair of TC 89 for 12 years. With his cooperative and consensus oriented leadership style he

helped create widespread awareness and recognition for the safety topic of “fire hazard testing”. By restructuring the set-up of the TC, Uberto Vercellotti increased its efficiency, quality and speed of work. He also encouraged the participation of young talents and actively supported participation of new countries and emerging economies.

**Alexander Zalogin, Vice-Chair of IECEx**

Vice-Chair and member of the IECEx Executive, Alexander Zalogin has gained the respect and support of the International Ex community worldwide for his supportive and active leadership role. He has extensively contributed to the significant growth of the IECEx System, and its recognition by the United Nations through UNECE as the world’s “best practice” model for testing and certification of all aspects of Ex equipment, components, assemblies, services and the competence of persons working in this area. His personal engagement also led to the introduction of a standardized approach to the certification of Ex assemblies, now subject of a new IEC TC 31 Standard. This award also recognizes Alexander Zalogin’s overall long-term commitment and dedication to the IEC.

**Peter Zwanziger, Past Chair TC 22**

TC 22 International Standards are essential for the safety and proper functioning of electronic power convertor systems and equipment used in energy generation from solar, wind, tidal, wave, fuel cell and similar energy sources. Market size for power electronic converters is estimated at around USD 100 billion. During his tenure, Peter Zwanziger modernized the management structure of the TC and significantly improved collaboration between its subcommittees using modern communication and meeting tools. He continuously adapted the scope of TC 22 to satisfy new technology and energy efficiency needs. Peter Zwanziger also improved the efficiency of collaboration with other TCs, encouraging open, fact-based discussions. He actively participated in the Advisory Committee on Energy Efficiency (ACEE), contributing to an important guide on energy efficiency.

**About the Thomas Edison Award**

Created in 2010, the Thomas A. Edison Award recognizes exceptional achievement (within the past five years), dedicated service and significant contributions to the IEC through the effective management of committees of TC/SC Officers (Chair, Secretary or Assistant Secretary of a technical committee or subcommittee) and officers of the IEC Conformity Assessment Systems and their subsidiary bodies.

The IEC Thomas A. Edison Award is presented by the Chair of the SMB (Standardization Management Board) or CAB, at the meeting held in conjunction with the IEC General Meeting, or on another suitable occasion.