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**ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS ON SINGAPORE STANDARDS – 6 FEBURARY 2026**

Under the National Standardisation Programme, the public comment period is an important stage of standards development. Members of the public are invited to provide feedback on draft Singapore Standards for publication and work item proposals for development and review of Singapore Standards, Technical References and Workshop Agreements. The establishment of Singapore Standards is done in accordance with the World Trade Organisation's requirements for the development of national standards.

**A) Notification of Draft Singapore Standards for Publication**

Newly developed and revised Singapore Standards (SSs), and the outcomes of the reviews of existing SSs are available to the public to gather feedback on their contents and status prior to their completion.

Members of the public are invited to comment on the following Singapore Standard(s):

Information Technology – [liquid cooling](#)

Manufacturing – [industrial automation and control systems](#) (2 standards)

Safety and Quality – [energy lockout and tagout](#)

Closing date for comments: **7 April 2026**

For more information on viewing the document(s), [click here](#).

Please submit comments to: [standards@enterprisesg.gov.sg](mailto:standards@enterprisesg.gov.sg).

**B) Notification of Work Item Proposals**

**B.1 Proposal for New Work Items**

New Work Items (NWIs) are approved proposals to develop new Singapore Standards, or pre-standards like Technical References and Workshop Agreements. The NWIs are work-in-progress, and the drafts are not available at the public comment stage.

Members of the public are invited to comment on the scope of the following NWI(s):

Manufacturing – [industrial automation and control systems](#)

Closing date for comments: **9 March 2026**

**B.2 Proposal for the Review of Singapore Standards**

Published Singapore Standards, Technical References and Workshop Agreements are reviewed to determine if they should be updated, confirmed or withdrawn (if they no longer serve the industry's needs) or classified as mature standards (no foreseeable changes; to be reviewed only upon request). The reviews are ongoing, and the new versions/drafts are not available at this juncture. Users can refer to the current standards to provide feedback. [Click here](#) to view or purchase the standards.

Members of the public are invited to comment on the following standard(s) to be reviewed:

Transportation – [rail network assets](#)

Closing date for comments: **9 March 2026**

Members of the public are invited to join as standards partners, co-opted members or resource members subject to the approval of relevant committees and working groups.

To comment or to join in the development of these standards, please write to [standards@enterprisesg.gov.sg](mailto:standards@enterprisesg.gov.sg).

**A) Notification of Draft Singapore Standard for Publication**

**(I) Information Technology**

New

**1. Liquid cooling in tropical data centres**

This standard contains provisions for implementing liquid cooling technologies in data centres located within tropical climates. It presents overarching strategies to enhance energy efficiency in liquid cooling applications, with guidance and requirements on the design, commissioning, operation, and maintenance of liquid-cooled systems.

The scope of this standard is limited to systems in which coolant fluid directly extracts heat from the source. Indirect approaches such as rear-door heat exchangers that remove ambient heat from air at the back of equipment racks, are excluded.

Users of the standard include data centre operators, systems integrators, equipment vendors and customers seeking to deploy liquid cooling systems or procure services that run on liquid-cooled systems.

**(II) Manufacturing**

Revision

**2. Security for industrial automation and control systems – Part 2-1: Security program requirements for IACS asset owners** (Revision of SS IEC 62443-2-1:2018) (Identical adoption of IEC 62443-2-1:2024)

This part of SS IEC 62443 specifies asset owner security program (SP) policy and procedure requirements for an industrial automation and control system (IACS) in operation. This standard uses the broad definition and scope of what constitutes an IACS as described in TR IEC/TS 62443-1-1. In the context of this standard, asset owner also includes the operator of the IACS.

**3. Security for industrial automation and control systems – Part 2-4: Security program requirements for IACS service providers** (Revision of SS IEC 62443-2-4:2018) (Identical adoption of IEC 62443-2-4:2023)

This part of SS IEC 62443 specifies a comprehensive set of requirements for security-related processes that IACS service providers can offer to the asset owners during integration and maintenance activities of an Automation Solution. Not all requirements apply to all industry groups and organisations, so Subclause 4.1.4 provides the development of "profiles" that allow for the subsetting of these requirements. Profiles are used to adapt this document to specific environments, including environments not based on an IACS.

Users of the standards on security for industrial automation and control systems include IACS cybersecurity service providers, asset owners and operators, and relevant government agencies.

**(III) Safety and Quality**

**Confirmation**

**4. Code of practice for energy lockout and tagout (SS 571:2011)**

This standard establishes the minimum safety requirements for the control of energy sources which can cause injury to persons. It applies to activities such as erecting, installing, constructing, repairing, adjusting, inspecting, modifying, unjamming, setting up, troubleshooting, testing, cleaning, dismantling, servicing, and maintaining machines, equipment or processes.

Users of the standard include manufacturers, training institutions and relevant government agencies.

Copies of the draft are available at:

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Singapore Standards are viewable multimedia stations at all Public Libraries via NLB databases "Singapore Standards Collection" at <https://reference.nlb.gov.sg/guides/sci-tech/tech/standards-and-references/> Please refer to <https://www.nlb.gov.sg/main/visit-us> for address and viewing hours.

**Purchase of Singapore Standards**

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**NOTE** – The viewing period of the draft and standard will expire on the closing of the public comment period and will no longer be available after this date.

**B) Notification of the Work Item Proposals**

**B.1 Proposal for New Work Items**

**Manufacturing**

**1. Security for industrial automation and control systems – Part 2-2: IACS security protection scheme (Identical adoption of IEC PAS 62443-2-2:2025)**

This standard provides guidance on the development, validation, operation, and maintenance of a set of technical, physical, and process security measures called Security Protection Scheme (SPS). The standard aims to equip asset owners implementing an Industrial Automation and Control System (IACS) Security Programme with robust mechanisms and procedures. This ensures that the design, implementation and operation of an SPS manage the risks resulting from cyber threats to each of the IACS included in its operating facility.

The standard is based on content specified in other documents of the IEC 62443 series and explains how these contents can be used to support the development of technical, physical, and process security measures addressing the risks to the IACS during the operation phase.

Users of the standard include IACS cybersecurity service providers, asset owners and operators, and relevant government agencies.

## **B.2 Proposal for the Review of Singapore Standards**

### **Transportation**

#### **1. Terminology for asset management of rail network assets (TR 86:2021)**

This standard specifies common terms used in asset management related works in a railway system such as asset planning, design and build, procurement, operation, maintenance, performance monitoring, modification and renewal, decommissioning and replacement.

The standard is reviewed with the intention to identify, update, and incorporate relevant terminologies, to ensure that the definitions remain current, accurate and effective in supporting industry practices and public communication.

Users of the standard include rail transport operators, contractors, manufacturers and suppliers, institutes of higher learning and relevant government agencies.

[Submit Comments](#)

## **Frequently asked questions about public comment on Singapore Standards:**

### **1. What is the public comment on Singapore Standards?**

Singapore Standards are established based on an open system which is also in accordance with the requirements of the World Trade Organisation. These documents are issued as part of a consultation process before any standards are introduced or reviewed. The public comment period is an important stage in the development of Singapore Standards. This mechanism helps industry, companies and other stakeholders to be aware of forthcoming changes to Singapore Standards and provides them with an opportunity to influence, before their publication, the standards that have been developed by their industry and for their industry.

### **2. How does public comment on Singapore Standards benefit me?**

This mechanism:

- ensures that your views are considered and gives you the opportunity to influence the content of the standards in your area of expertise and in your industry;
- enables you to be familiar with the content of the standards before they are published and you stand to gain a competitive advantage with this prior knowledge of the standards.

### **3. Why do I have to pay for the standards which are proposed for review or withdrawal?**

These standards are available for **free viewing** at TOPPAN NEXT Pte. Ltd. and all Public Libraries. However, the normal price of the standard will be charged for those who wish to purchase a copy. At the stage where we propose to review or withdraw the standards, the standards are still current and in use. We seek comments for these standards so as to:

- provide an opportunity for the industry to provide inputs for the review of the standard that would make the standard suitable for the industry's use,
- provide feedback on the continued need for the standard so that it will not be withdrawn.

### **4. Why are comments only accepted through the public comment form provided by Enterprise Singapore?**

The public comment form enables users to submit their comments in a standardised and structured manner. The Working Group (WG) that will be reviewing the comments will have a better understanding of what the commenter has proposed, the rationale for the changes and where these changes will be made in the standard. This will assist the WG in addressing the comments more effectively.

### **5. What happens after I have submitted my comments?**

The comments will be channelled to the relevant WGs for consideration and you will be informed of the outcome of the committee's decision. You may be invited to meet the WG if clarification is required on your feedback.

### **6. Can I view drafts after the public comment period?**

Drafts will not be available after the public comment period.

### **7. How do I request for the development of a new standard?**

You can propose the development of a new standard [here](#).