SVENSK STANDARD

SS-EN IEC 62443-2-4, utg 2:2024

Fastställd	Sida	Ansvarig kommitté
2024-09-25	1 (94)	SEK TK 65

IT-säkerhet i industriella automationssystem – Del 2-4: Fordringar på IT-säkerhetsprogram för dem som tillhandahåller tjänster för industriella automationssystem

Security for industrial automation and control systems – Part 2-4: Security program requirements for IACS service providers

Som svensk standard gäller europastandarden EN IEC 62443-2-4:2024. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 62443-2-4:2024.

Nationellt förord

Europastandarden EN IEC 62443-2-4:2024

består av:

– **europastandardens ikraftsättningsdokument,** utarbetat inom CENELEC
– **IEC 62443-2-4, Second edition, 2023 - Security for industrial automation and control systems – Part 2-4: Security program requirements for IACS service providers**

utarbetad inom International Electrotechnical Commission, IEC.

Tidigare fastställd svensk standard SS-EN IEC 62443-2-4, utg 1.1:2019 med eventuella tillägg, ändringar och rättelser gäller ej fr o m 2027-01-19.

ICS 25.040.40; 35.100.05

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 62443-2-4

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ICS 25.040.40; 35.100.05

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English Version

Security for industrial automation and control systems - Part 2-4: Security program requirements for IACS service providers (IEC 62443-2-4:2023)

Sécurité des automatismes industriels et des systèmes de commande - Partie 2-4: Exigences de programme de sécurité pour les fournisseurs de service IACS
(IEC 62443-2-4:2023)

IT-Sicherheit für industrielle Automatisierungssysteme - Teil 2-4: Anforderungen an das IT-Sicherheitsprogramm von Dienstleistern für industrielle Automatisierungssysteme
(IEC 62443-2-4:2023)

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. EN IEC 62443-2-4:2024 E

European foreword

The text of document 65/1021/FDIS, future edition 2 of IEC 62443-2-4, prepared by IEC/TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62443-2-4:2024.

The following dates are fixed:

•	latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop) 2024-10-19
•	latest date by which the national standards conflicting with the document have to be withdrawn	(dow) 2027-01-19

This document supersedes EN IEC 62443-2-4:2019 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 62443-2-4:2023 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 62682:2022 NOTE Approved as EN IEC 62682:2023 (not modified)
ISO/IEC 30111 NOTE Approved as EN ISO/IEC 30111
ISO 15189:2022 NOTE Approved as EN ISO 15189:2022 (not modified)

IEC 62443-2-4

Edition 2.0 2023-12

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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Security for industrial automation and control systems – Part 2-4: Security program requirements for IACS service providers

Sécurité des automatismes industriels et des systèmes de commande – Partie 2-4: Exigences de programme de sécurité pour les fournisseurs de service IACS

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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SECURITY FOR INDUSTRIAL AUTOMATION AND CONTROL SYSTEMS –

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FOREWORD

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This document has been prepared by of IEC technical committee 65: Industrial-process measurement, control and automation in collaboration with the liaison International Instrumentation Users Association, referred to as the WIB from its original and now obsolete Dutch name. It is an International Standard.

This publication contains an attached file in the form of a .CSV spreadsheet version of Table A.1. This file is intended to be used as a complement and does not form an integral part of the publication.

This second edition cancels and replaces the first edition published in 2015 and Amendment 1:2017. This edition constitutes a technical revision.

This edition contains editorial updates and clarifications and does not contain significant technical changes with respect to the previous edition. One area of clarification is that some of the requirements could have been interpreted as requirements for technical capabilities. These requirements were clarified so that they are expressed as requirements for the use/configuration of technical capabilities.

The text of this International Standard is based on the following documents:

Draft	Report on voting
65/1021/FDIS	65/1029/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 62443 series, published under the general title *Security for industrial automation and control systems*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

IMPORTANT – The "colour inside" logo on the cover page of this document indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

SECURITY FOR INDUSTRIAL AUTOMATION AND CONTROL SYSTEMS –

Part 2-4: Security program requirements for IACS service providers

1 Scope

This part of IEC 62443 specifies a comprehensive set of requirements for security-related processes that IACS service providers can offer to the asset owner during integration and maintenance activities of an Automation Solution. Because not all requirements apply to all industry groups and organizations, Subclause 4.1.4 provides for 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.

NOTE 1 The term "Automation Solution" is used as a proper noun (and therefore capitalized) in this document to prevent confusion with other uses of this term.

Collectively, the security processes offered by an IACS service provider are referred to as its Security Program (SP) for IACS asset owners. In a related specification, IEC 62443-2-1 describes requirements for the Security Management System of the asset owner.

NOTE 2 In general, these security capabilities are policy, procedure, practice and personnel related.

Figure 1 illustrates the integration and maintenance security processes of the asset owner, service provider(s), and product supplier(s) of an IACS and their relationships to each other and to the Automation Solution. Some of the requirements of this document relating to the safety program are associated with security requirements described in IEC 62443-3-3 and IEC 62443-4-2.

NOTE 3 The IACS is a combination of the Automation Solution and the organizational measures necessary for its design, deployment, operation, and maintenance.

NOTE 4 Maintenance of legacy system with insufficient security technical capabilities, implementation of policies, processes and procedures can be addressed through risk mitigation.

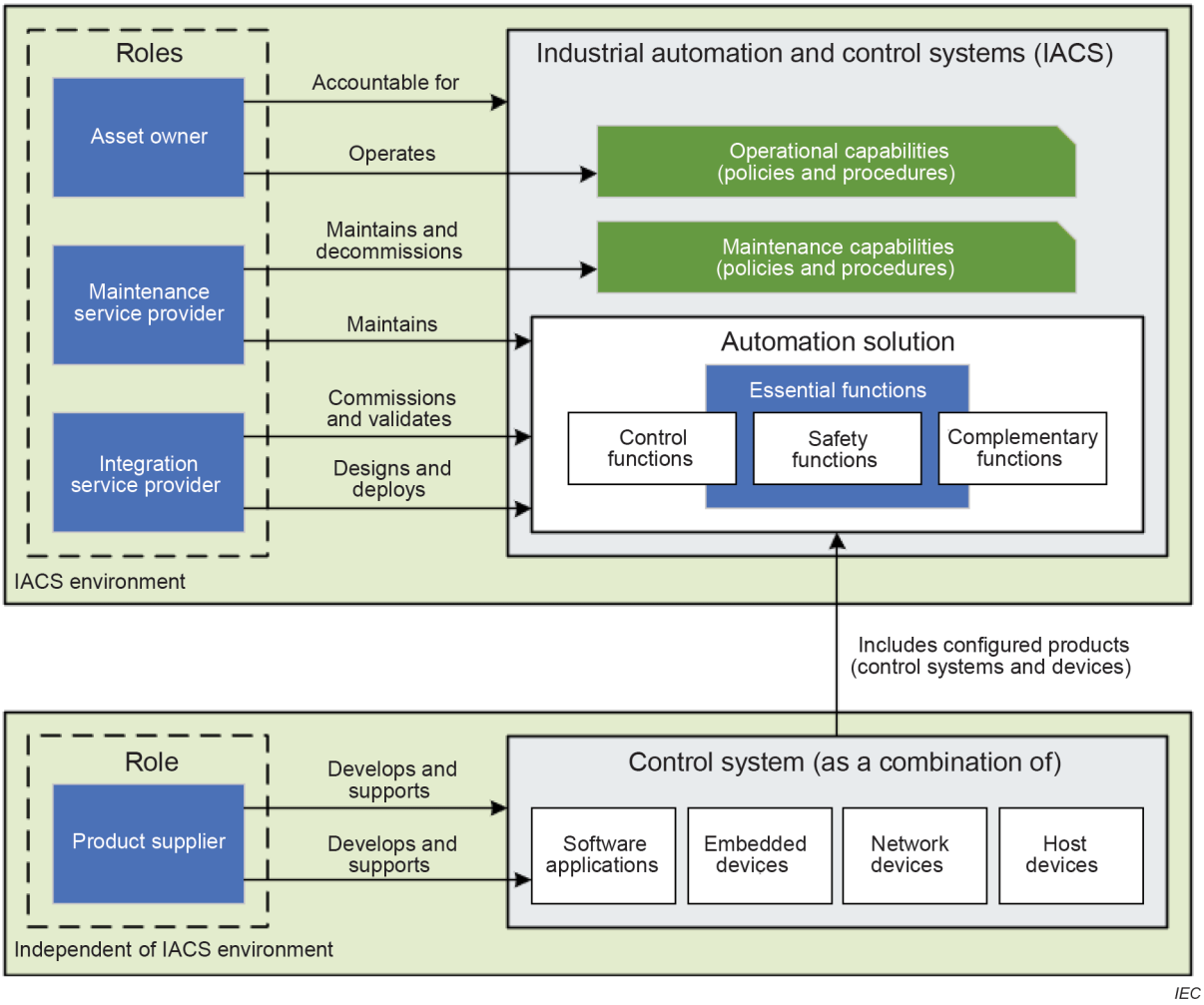

Figure 1 – Scope of service provider processes

In Figure 1, the Automation Solution is illustrated to contain essential functions that include safety functions, commonly implemented by a Safety Instrumented System (SIS), and complementary and control functions, commonly implemented by supporting applications, such as batch management, advanced control, historian, and security related applications. The dashed boxes identify organizational roles that perform the indicated actions.

NOTE 5 Automation Solutions typically have a single control system (product), but they are not restricted to do so. In general, the Automation Solution is the set of hardware and software, independent of product packaging, which is used to control a physical process (e.g. continuous or manufacturing) as defined by the asset owner.

NOTE 6 Service providers often provide generic architectures that can be adapted for integration into an Automation Solution. These generic architectures are often referred to as "reference architectures".

2 Normative references

There are no normative references in this document.