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SECURITY FOR INDUSTRIAL AUTOMATION AND CONTROL SYSTEMS –

Part 2-2: IACS security protection scheme

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IEC 62443-2-2 has been prepared by IEC technical committee 65: Industrial-process measurement, control and automation. It is a Publicly Available Specification.

IEC PAS 62443-2-2 has been developed by IEC TC 65 and the liaison ISA99: ISA committee on Security for industrial automation and control systems.

The text of this Publicly Available Specification is based on the following documents:

Draft	Report on voting
65/1051/DPAS	65/1121/RVDPAS

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 Publicly Available Specification 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, and the ISO/IEC Directives, JTC 1 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.

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- withdrawn, or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.

NOTE In accordance with ISO/IEC Directives, Part 1, IEC PASs are automatically withdrawn after 4 years.

INTRODUCTION

This document is the part of the IEC 62443 series that provides guidance on the development and validation of a set of technical, physical, and process security measures to address risk associated with cyberthreats when operating IACS. In the context of this document, asset owner also includes the operator of the IACS.

The purpose of the document is to provide input to support asset owners, integration service providers, maintenance service providers as well as product suppliers in their activities to provide a combination of technical, physical, and organizational capabilities for protecting IACS against cyberthreat.

SECURITY FOR INDUSTRIAL AUTOMATION AND CONTROL SYSTEMS –

Part 2-2: IACS security protection scheme

1 Scope

This part of IEC 62443 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 document's goal is to provide the asset owner implementing an IACS Security Program (SP) with mechanisms and procedures to ensure that the design, implementation and operation of an SPS manage the risks resulting from cyberthreats to each of the IACS included in its operating facility.

The document is based on contents 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.

Figure 1 illustrates the content of this document using a simplified IACS life cycle.

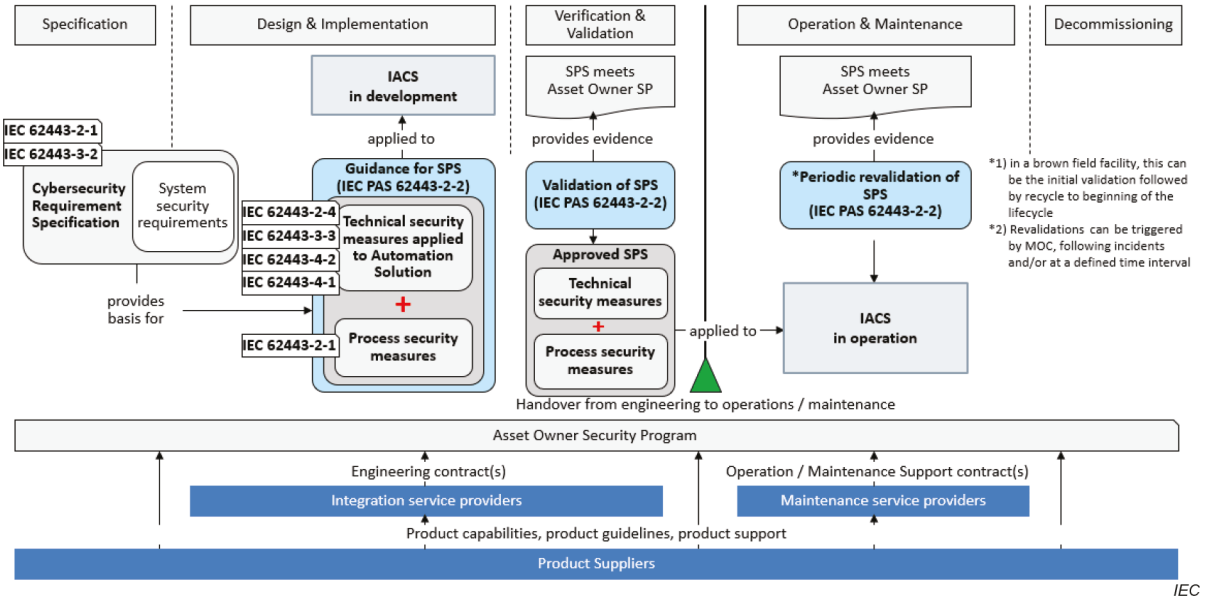


Figure 1 – Simplified asset owner security protection scheme (SPS) life cycle

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC TS 62443-1-1:2009, *Industrial communication networks – Network and system security – Part 1-1: Terminology, concepts and models*

IEC 62443-2-1:—[1], *Security for industrial automation and control systems – Part 2-1: Security program requirements for IACS asset owners*

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

IEC 62443-3-2:2020, *Security for industrial automation and control systems – Part 3-2: Security risk assessment for system design*

IEC 62443-3-3:2013, *Industrial communication networks – Network and system security – Part 3-3: System security requirements and security levels*

[1] Under preparation. Stage at the time of publication: IEC/FDIS 62443-2-1:2024.