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Security for industrial automation and control systems – Part 6-2: Security evaluation methodology for IEC 62443-4-2

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IEC TS 62443-6-2 has been prepared by technical committee TC 65: Industrial-process measurement, control and automation. It is a Technical Specification.

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

Draft	Report on voting
65/1101/DTS	65/1109/RVDTS

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 Technical 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, 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- withdrawn, or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.

INTRODUCTION

Repeatable and comparable evaluations of IACS components according to IEC 62443-4-2 require a common agreed understanding for applicable evaluation criteria.

This document supports evaluators (e.g. vendors, asset owners, certification organizations or other 3rd parties) to perform a conformity assessment by evaluating an IACS component against the requirements of IEC 62443-4-2.

This document specifies an evaluation methodology for IACS components related to IEC 62443-4-2 and includes applicable evaluation criteria for each requirement of IEC 62443-4-2 and the requested security level for that requirement.

SECURITY FOR INDUSTRIAL AUTOMATION AND CONTROL SYSTEMS –

Part 6-2: Security evaluation methodology for IEC 62443-4-2

1 Scope

This document specifies the evaluation methodology to support achieving repeatable and reproducible evaluation results for IACS components under evaluation against IEC 62443-4-2 requirements.

This document does not specify the definition of a complete certification scheme or certification program.

This document does not specify the process evaluations of the secure development lifecycle according to IEC 62443-4-1. The existing secure development lifecycle according to IEC 62443-4-1 is a prerequisite in this evaluation methodology.

This document does not specify particular tools, e.g. for the use in vulnerability or penetration testing.

This document does not focus on IACS components which were not developed according to the lifecycle process of IEC 62443-4-1.

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 62443-4-1:2018, *Security for industrial automation and control systems – Part 4-1: Secure product development lifecycle requirements*

IEC 62443-4-2:2019, *Security for industrial automation and control systems – Part 4-2: Technical security requirements for IACS components*