

Information security, cybersecurity and privacy protection – Evaluation criteria for IT security – Part 3: Security assurance components (ISO/IEC 15408-3:2022)

Informationssicherheit, Cybersicherheit und Schutz der Privatsphäre – Evaluationskriterien für IT-Sicherheit – Teil 3: Sicherheit Gewährleistungskomponenten (ISO/IEC 15408-3:2022)

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Information security, cybersecurity and privacy protection — Evaluation criteria for IT security —

**Part 3:
Security assurance components**

Sécurité de l'information, cybersécurité et protection de la vie privée — Critères d'évaluation pour la sécurité des technologies de l'information —

Partie 3: Composants d'assurance de sécurité



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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 27, *Information security, cybersecurity and privacy protection*.

This fourth edition cancels and replaces the third edition (ISO/IEC 15408-3:2008), which has been technically revised.

The main changes are as follows:

- the terminology has been reviewed and updated;
- the exact conformance type has been incorporated;
- low assurance PPs have been removed and direct rationale PPs have been incorporated;
- PP-Modules and PP-Configurations for modular evaluations have been incorporated;
- multi-assurance evaluation has been incorporated.

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Introduction

Security assurance components, as defined in this document, are the basis for the security assurance requirements expressed in a Security Assurance Package, Protection Profile (PP), a PP-Module, a PP-Configuration, or a Security Target (ST).

These requirements establish a standard way of expressing the assurance requirements for TOEs. This document catalogues the set of assurance components, families and classes. It also defines evaluation criteria for PPs, PP-Configurations, PP-Modules, and STs.

The audience for this document includes consumers, developers, technical working groups, evaluators of secure IT products and others. ISO/IEC 15408-1:2022, Clause 5 provides additional information on the target audience of the ISO/IEC 15408 series, and on the use of the ISO/IEC 15408 series by the groups that comprise the target audience. These groups may use this document as follows:

- a) Consumers, who use this document when selecting components to express assurance requirements to satisfy the security objectives expressed in a PP or ST, determining required levels of security assurance of the TOE.
- b) Developers, who respond to actual or perceived consumer security requirements in constructing a TOE, reference this document when interpreting statements of assurance requirements and determining assurance approaches of TOEs.
- c) Evaluators, who use the assurance requirements defined in this document as a mandatory statement of evaluation criteria when determining the assurance of TOEs and when evaluating PPs and STs.

NOTE This document uses bold and italic type in some cases to distinguish terms from the rest of the text. The relationship between components within a family is highlighted using a bolding convention. This convention calls for the use of bold type for all new requirements. For hierarchical components, requirements are presented in bold type when they are enhanced or modified beyond the requirements of the previous component. In addition, any new or enhanced permitted operations beyond the previous component are also highlighted using bold type.

The use of italics indicates text that has a precise meaning. For security assurance requirements the convention is for special verbs relating to evaluation.

Information security, cybersecurity and privacy protection — Evaluation criteria for IT security —

Part 3: Security assurance components

1 Scope

This document defines the assurance requirements of the ISO/IEC 15408 series. It includes the individual assurance components from which the evaluation assurance levels and other packages contained in ISO/IEC 15408-5 are composed, and the criteria for evaluation of Protection Profiles (PPs), PP-Configurations, PP-Modules, and Security Targets (STs).

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.

ISO/IEC 15408-1:2022, *Information security — Evaluation criteria for IT security — Part 1: Introduction and general model*

ISO/IEC 15408-2, *Information security — Evaluation criteria for IT security — Part 2: Security functional components*

ISO/IEC 15408-4, *Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Part 4: Framework for the specification of evaluation methods and activities*

ISO/IEC 15408-5, *Information security — Evaluation criteria for IT security — Part 5: Pre-defined packages of security requirements*

ISO/IEC 18045:2022, *Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Methodology for IT security evaluation*

ISO/IEC IEEE 24765, *Systems and software engineering — Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 15408-1, ISO/IEC 15408-2, ISO/IEC 15408-4, ISO/IEC 15408-5, ISO/IEC 18045 and ISO/IEC IEEE 24765 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

acceptance procedure

procedure followed in order to accept newly created or modified *configuration items* (3.3) as part of the target of evaluation (TOE), or to move them to the next step of the life-cycle

Note 1 to entry: These procedures identify the roles or individuals responsible for the acceptance and the criteria to be applied in order to decide on the acceptance.