TECHNICAL REPORT

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Information security, cybersecurity and privacy protection — New concepts and changes in ISO/IEC 15408:2022 and ISO/IEC 18045:2022

Sécurité de l'information, cybersécurité et protection de la vie privée — Nouveaux concepts et modifications dans l'ISO/IEC 15408:2022 et l'ISO/IEC 18045:2022

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Foreword

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html. In the IEC, see www.iec.ch/understanding-standards.

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

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html and www.iec.ch/national-committees.

Introduction

The ISO/IEC 15408:2022 series and ISO/IEC 18045:2022 include substantial changes compared to the former ISO/IEC 15408 series (ISO/IEC 15408-1:2009, ISO/IEC 15408-2:2008 and ISO/IEC 15408-3:2008) and ISO/IEC 18045:2008 and subsequent Common Criteria and Common Evaluation Methodology Version 3.1 Revision 5 [14]-[17] (also called CC 3.1 and CEM 3.1 in the following). The edition:

— covers complex products and communities' needs;

— offers compatibility with currently existing processes.

The goal of the revision of the ISO/IEC 15408 series (ISO/IEC 15408-1:2009, ISO/IEC 15408-2:2008 and ISO/IEC 15408-3:2008) and ISO/IEC 18045:2008 was manifold and intended to support and fluidify the work of all main groups with a general interest in the evaluation of the security properties of Target of Evaluations (TOEs) by restructuring the documents, introducing new concepts and updating the existing ones after rigorous consideration of commonly used approaches for the criteria. Specifically, the revision aimed to:

— take into consideration Common Criteria users, especially existing Mutual Recognition Agreements (MRAs), and their stakeholders,

NOTE The only existing recognition arrangements are the Common Criteria Recognition Arrangement[1)] (CCRA) and Senior Officials Group — Information Systems Security Mutual Recognition Agreement[2)] (SOG-IS MRA).

— offer continued alignment with the supporting documents developed in the context of the existing MRAs;

— take into consideration commonly used approaches for the criteria (including but not limited to CC 3.1 and CEM 3.1) and introduce technical changes accordingly.

This document is meant to provide information and support to users of the ISO/IEC 15408:2022 series and ISO/IEC 18045:2022. The audience for this document includes:

— security assurance consumers;

— IT product developers and those authoring Security Targets;

— technical community subject matter experts (SMEs) developing Packages, Protection Profiles, evaluation methodologies, and other supportive documents;

— evaluators;

— evaluation schemes, and evaluation authorities;

— consultants, including developers of supportive tools;

— others, including those involved with mutual recognition arrangements and academia.

It is expected that the audience for this document is familiar with CC 3.1 and CEM 3.1.

1) https://www.commoncriteriaportal.org/ccra/index.cfm

2) https://sogis.org

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1 Scope

This document:

— introduces the break down between the former ISO/IEC 15408 series (ISO/IEC 15408-1:2009, ISO/IEC 15408-2:2008) and ISO/IEC 15408-3:2008) and ISO/IEC 18045:2008 and the new parts introduced in the ISO/IEC 15408:2022 series and ISO/IEC 18045:2022;

— presents the concepts newly introduced as well as the rationale for their inclusion;

— proposes an evolution path and information on how to move from CC 3.1 and CEM 3.1 to the ISO/IEC 15408:2022 series and ISO/IEC 18045:2022, respectively;

— maps the evolutions between the CC 3.1 and CEM 3.1 and the ISO/IEC 15408:2022 series and ISO/IEC 18045:2022, respectively.

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, cybersecurity and privacy protection — Evaluation criteria for IT security — Part 1: Introduction and general model*

ISO/IEC 15408-2:2022, *Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Part 2: Security functional components*

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

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