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Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Patch Management Extension for the ISO/IEC 15408 series and ISO/IEC 18045

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Sécurité de l'information, cybersécurité et protection de la vie privée — Critères d'évaluation pour la sécurité des TI — Extension pour la gestion des correctifs concernant la série ISO/IEC 15408 et l'ISO/IEC 18045

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives or www.iec.ch/members_experts/refdocs).

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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*.

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Introduction

The ISO/IEC 15408 series is intended to be used to evaluate the assurance of IT products. While the ISO/IEC 15408 series can be used to perform an initial evaluation of an IT product, it does not support a differential security evaluation of that product, subsequent to one or several patches being applied to it. Neither the ISO/IEC 15408 series nor ISO/IEC 18045 contain dedicated methods or evaluation activities which would support the evaluation of changes or updates.

Some of these aspects were addressed by users of the ISO/IEC 15408 series, in particular evaluation authorities, but also within the mutual recognition agreements (e.g. Common Criteria Recognition Arrangement). In a lot of many real-world use-cases, developers provide updated or patched target of evaluations (TOEs), but the effort to re-certify these versions has mostly been avoided.

This problem described before of patch management and its related components are missing from the current ISO/IEC 15408 series and ISO/IEC 18045. To address this problem, requirements and recommendations are needed on how to regain assurance of an updated target of evaluation in a standardized and widely accepted way e.g. in terms of effort and costs.

This document collects discussions and experience from the experts involved in the ISO/IEC 15408 series and ISO/IEC 18045, to address the evaluation of the patch management during the evaluation of the initial TOE in a standardized way. This document also discusses alternatives for the evaluation of patched TOEs, although it does not provide a standardized approach.

This document is intended to be used as an extension to the ISO/IEC 15408 series and ISO/IEC 18045.

Clause 5 includes the definition of the new patch management assurance family following the structure defined in the ISO/IEC 15408 series and ISO/IEC 18045. Clause 6 includes additional guidance for the evaluators of the initial target of evaluation (TOE). Annex A summarizes experiences in evaluation schemes as options for adoption.

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.

This document follows the conventions introduced in the ISO/IEC 15408 series and ISO/IEC 18045.

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Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Patch Management Extension for the ISO/IEC 15408 series and ISO/IEC 18045

1 Scope

This document specifies ~~specify~~ patch management (PAM) security assurance requirements and is intended to be used as an extension of the ISO/IEC 15408 series and ISO/IEC 18045.

The security assurance requirements specified in this document do not include evaluation or test activities on the final target of evaluation (TOE), but focus on the initial TOE and on the life cycle processes used by manufacturers. Additionally, this document gives guidance to facilitate the evaluation of the TOE, including the patch and development processes which support the patch management.

This document lists options for evaluation authorities (or mutual recognition agreements) on how to utilize the additional assurance and additional evidence in their processes to enable the developer to consistently re-certify their updated or patched TOEs to the benefit of the users ~~of these TOEs~~. The implementation of these options using an evaluation scheme is out of the scope of this document.

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2 Normative references

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3 Terms and definitions

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— IEC Electropedia: available at <https://www.electropedia.org/>

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3.1 activation

operation performed on a patch to transform the *initial target of evaluation (TOE)* (3.8) into the *final TOE* (3.5)

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Note 1 to entry: Activation is an atomic operation which can only be done in one step (partial activation is not allowed).

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Note 2 to entry: In addition to installing the modified functionality, this operation shall encompass a change in TOE identification.

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Note 3 to entry: The TOE shall remain in a secure state even if interruption or incident occurs during such operation, which prevents the forming of the final TOE.

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3.2 end-of-support

date until when the user can expect to receive new patches

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Note 1 to entry: The end-of-support should be greater than the period of validity of the certificate.

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Note 2 to entry: The period of validity of the certificate can be extended through the standard assurance continuity.

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3.3 evaluation authority

body operating an evaluation scheme

[SOURCE: ISO/IEC 15408-1:2022, 3.40]

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3.4 final target of evaluation

final TOE

initial TOE (3.8) with the patches (3.11) applied

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Note 1 to entry: FinalThe final TOE is obtained by combining the initial TOE and patch(es) to be loaded and activated on the initial TOE.

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Note 2 to entry: The final TOE is not necessarily evaluated but assurance is gained through ALC_PAM on the initial TOE.

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3.5 flaw remediation
assurance family ALC_FLR defined in ISO/IEC 15408-3:2022 which provides requirements for the handling of security flaws

[SOURCE: Note 1 to entry: This definition of flaw remediation is based on ISO/IEC 15408-3:2022, 12.1, modified.]

3.6 identification data
data that identifies the initial target of evaluation (3.8), the applied patch(es) (3.13) or the final target of evaluation (3.5)

3.7 initial evaluation
complete evaluation of the initial target of evaluation (3.8)

3.8 initial TOE
initial target of evaluation
target of evaluation (TOE) (3.18) that supports evaluated features allowing at least to securely load, activate and execute patch(es), without any applied patches

Note 1 to entry: The final TOE (3.4) is obtained by loading and activating the patches for the initial TOE.

Note 2 to entry: The final TOE may not be evaluated but assurance is gained through the evaluation of ALC_PAM on the initial TOE.

3.9 loader
piece of the TOE-target of evaluation security functionality (TSF) (3.19) of the initial target of evaluation (3.8) that implements the activation (3.1) of a patch (3.11)

3.10 maintenance
process provided by an evaluation authority that recognises that a set of one or more applied patches (3.11) made to an initial target of evaluation (TOE) (3.8) has not adversely affected the assurance

Note 1 to entry: Changes in the development environment can be considered as maintenance if they relate to the TOE.

Note 2 to entry: Maintenance is typically applied in the context of certification.

3.11 patch
type of source code or binary code to be added to an initial target of evaluation (TOE) (3.8) in order to introduce additions or modifications of a functional or security feature

Note 1 to entry: PatchA_patch is loaded on the initial TOE and activated to obtain the final TOE.

Note 2 to entry: Full replacement of a TOE is a possible implementation of "patchability" and a current practice for software TOEs.

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3.12 patch management

PAM processes applied during patch (3.11) development and patch release

3.13 patch management documentation

PMD documentation describing the policies, processes, procedures related to the patching of the target of evaluation (3.18)

3.14 patch verification mechanism

technical mechanism to verify the integrity and/or authenticity of a patch (3.11)

3.15 re-evaluation

process of recognising that changes made to an initial target of evaluation (3.8) require independent evaluator activities to be performed in order to establish a new assurance baseline

Note 1 to entry: Re-evaluation seeks to reuse results from a previous evaluation.

3.16 security assurance requirement

SAR SAR security requirement that refers to the conditions and processes for the development and delivery of the target of evaluation (3.18), and the actions required of evaluators with respect to evidence produced from these conditions and processes

[SOURCE: ISO/IEC 15408-1:2022, 3.76]

3.17 security relevance report

SRR document containing the assessment of security relevance of a patch (3.11)

3.18 target of evaluation

TOE set of software, firmware and/or hardware possibly accompanied by guidance, which is the subject of an evaluation

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