PD ISO/IEC TR 15446:2017

BSI Standards Publication

Information technology — Security techniques — Guidance for the production of protection profiles and security targets

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National foreword

This Published Document is the UK implementation of ISO/IEC TR 15446:2017. It supersedes PD ISO/IEC TR 15446:2009, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee IST/33/3, Security Evaluation, Testing and Specification.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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TECHNICAL REPORT

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Information technology — Security techniques — Guidance for the production of protection profiles and security targets

Technologies de l'information — Techniques de sécurité — Guide pour la production de profils de protection et de cibles de sécurité

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

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 ISO documents 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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/IEC JTC 1, *Information technology*, SC 27, *IT Security techniques*.

This third edition cancels and replaces the second edition (ISO/IEC TR 15446:2009), which has been technically revised.

Introduction

This document is an adjunct to ISO/IEC 15408 (all parts). ISO/IEC 15408 introduces the concepts of *Protection Profiles* (PPs) and *Security Targets* (STs). A Protection Profile is an implementation-independent statement of security needs for a type of IT product that can then be evaluated against ISO/IEC 15408, whereas a Security Target is a statement of security needs for a specific ISO/IEC 15408 target of evaluation (TOE).

Unlike previous editions, the third edition of ISO/IEC 15408 (all parts) provides a comprehensive explanation of *what* needs to go into a PP or ST. However, the third edition of ISO/IEC 15408 still does not provide any explanation or guidance of *how* to go about creating a PP or ST, or how to use a PP or ST in practice when specifying, designing or implementing secure systems.

This document is intended to fill that gap. It represents the collective experience over many years from leading experts in ISO/IEC 15408 evaluation and the development of secure IT products.

Information technology — Security techniques — Guidance for the production of protection profiles and security targets

1 Scope

This document provides guidance relating to the construction of Protection Profiles (PPs) and Security Targets (STs) that are intended to be compliant with the third edition of ISO/IEC 15408 (all parts). It is also applicable to PPs and STs compliant with Common Criteria Version 3.1 Revision 4[6], a technically identical standard published by the Common Criteria Management Board, a consortium of governmental organizations involved in IT security evaluation and certification.

NOTE This document is not intended as an introduction to evaluation using ISO/IEC 15408 (all parts). Readers who seek such an introduction can read ISO/IEC 15408-1.

This document does not deal with associated tasks beyond PP and ST specification such as PP registration and the handling of protected intellectual property.

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 15408-1:2009, *Information technology — Security techniques — Evaluation criteria for IT security — Part 1: Introduction and general model*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 15408-1 apply.

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

— ISO Online browsing platform: available at http://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

4 Abbreviated terms

For the purposes of this document, the abbreviated terms given in ISO/IEC 15408-1 and the following apply.

COTS Commercial Off The Shelf

CRL Certificate Revocation List

LDAP Lightweight Directory Access Protocol

SPD Security Problem Definition

SSL Secure Sockets Layer

TLS Transport Layer Security