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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).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: Foreword — Supplementary information.

ISO/IEC 11889-3 was prepared by the Trusted Computing Group (TCG) and was adopted, under the PAS procedure, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC.

This second edition cancels and replaces the first edition (ISO/IEC 11889-3:2009), which has been technically revised.

ISO/IEC 11889 consists of the following parts, under the general title *Information technology — Trusted Platform Module Library*:

– *Part 1: Architecture*

– *Part 2: Structures*

– *Part 3: Commands*

– *Part 4: Supporting routines*

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Introduction

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Information technology — Trusted Platform Module Library — Part 3: Commands

1 Scope

This part of ISO/IEC 11889 contains the definitions of the Trusted Platform Module (TPM) commands. These commands make use of the constants, flags, structures, and union definitions defined in ISO/IEC 11889-2.

The detailed description of the operation of the commands is written in the C language with extensive comments. The behavior of the C code in this part of ISO/IEC 11889 is normative but does not fully describe the behavior of a TPM. The combination of this part of ISO/IEC 11889 and ISO/IEC 11889-4 is sufficient to fully describe the required behavior of a TPM.

The code this part of ISO/IEC 11889 and ISO/IEC 11889-4 is written to define the behavior of a compliant TPM. In some cases it is not possible to provide a compliant implementation. In those cases, any implementation provided by the vendor that meets the general description of the function provided in this part of ISO/IEC 11889 would be compliant.

EXAMPLE Firmware update is a case where it is not possible to provide a compliant implementation.

The code in thie part of ISO/IEC 11889 and ISO/IEC 11889-4 is not written to meet any particular level of conformance nor does this specification require that a TPM meet any particular level of conformance.

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2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

- ISO/IEC 11889-1, *Information technology — Trusted Platform Module Library — Part 1: Architecture*
- ISO/IEC 11889-2, *Information technology — Trusted Platform Module Library — Part 2: Structures*
- ISO/IEC 11889-4, *Information technology — Trusted Platform Module Library — Part 4: Supporting routines*
- TCG Vendor ID Registry, available at <http://www.trustedcomputinggroup.org/resources/vendor_id_registry>

3 Terms and Definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 11889-1 apply.

4 Symbols and abbreviated terms

For the purposes of this document, the symbols and abbreviated terms given in ISO/IEC 11889-1 apply.

5 Notation

5.1 Introduction

For the purposes of this document, the notation given in ISO/IEC 11889-1 applies.

Command and response tables use various decorations to indicate the fields of the command and the allowed types. These decorations are specified in clause 5.

5.2 Table Decorations

The symbols and terms in the Notation column of Table 1 are used in the tables for the command schematics. These values indicate various qualifiers for the parameters or descriptions with which they are associated.

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