

STN

**Informačné technológie
Knižnica modulov dôveryhodnej platformy
Časť 4: Podporné rutiny**

**STN
ISO/IEC 11889-4**

97 4118

Information technology
Trusted Platform Module Library
Part 4: Supporting Routines

Technologies de l'information
Bibliothèque de module de plate-forme de confiance
Partie 4: Routines de support

Informationstechnologie
Trusted Platform Module Library
Teil 4: Supporting Routines

Táto norma obsahuje anglickú verziu ISO/IEC 11889-4: 2015.

This standard includes the English version of ISO/IEC 11889-4: 2015.

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Anotácia

Táto časť ISO/IEC 11889 obsahuje kód C, ktorý popisuje algoritmy a metódy používané príkazovým kódom v ISO/IEC 11889-3. Kód v tejto časti ISO/IEC 11889 rozširuje ISO/IEC 11889-2 a ISO/IEC 11889-3 tak, aby poskytoval úplný opis modulu TPM, vrátane podporného rámca pre kód, ktorý vykonáva príkazy.

Akýkoľvek kód v tejto časti ISO/IEC 11889 môže byť nahradený kódom, ktorý poskytuje podobné výsledky pri prepojení s akčným kódom v ISO/IEC 11889-3. Správanie kódu v tejto časti ISO/IEC 11889, ktoré nie je zahrnuté v prílohe, je normatívne, ako sa pozoruje na rozhraniach s kódom ISO/IEC 11889-3. Kód v prílohe je poskytovaný pre úplnosť, to znamená, že umožňuje plnú implementáciu ISO/IEC 11889 z poskytnutého kódu.

Kód v ISO/IEC 11889-3 a tejto časti ISO/IEC 11889 je napísaný tak, aby definoval správanie sa kompatibilného TPM. V niektorých prípadoch (napr. Aktualizácia firmvéru) nie je možné poskytnúť kompatibilnú implementáciu. V týchto prípadoch by bola kompatibilná akákoľvek implementácia poskytnutá dodavateľom, ktorá spĺňa všeobecný popis funkcie uvedenej v ISO/IEC 11889-3.

Národný predhovor

Normatívne referenčné dokumenty

Nasledujúce dokumenty, celé alebo ich časti, sú v tomto dokumente normatívnymi odkazmi a sú nevyhnutné pri jeho používaní. Pri datovaných odkazoch sa použije len citované vydanie. Pri nedatovaných odkazoch sa použije najnovšie vydanie citovaného dokumentu (vrátane všetkých zmien).

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ISO/IEC 10116: 2006 dosiaľ nezavedená

ISO/IEC 11889-1 zavedená v STN ISO/IEC 11889-1 Informačné technológie. Knižnica modulov dôveryhodnej platformy. Časť 1: Architektúra (97 4118)

ISO/IEC 11889-2 zavedená v STN ISO/IEC 11889-2 Informačné technológie. Knižnica modulov dôveryhodnej platformy. Časť 2: Štruktúry (97 4118)

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Vypracovanie normy

Spracovateľ: Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, Bratislava

Technická komisia: TK 37 Informačné technológie

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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 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 11889-4 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 11889-4:2009), 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*

Introduction

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Information technology — Trusted Platform Module Library — Part 4: Supporting routines

1 Scope

This part of ISO/IEC 11889 contains C code that describes the algorithms and methods used by the command code in ISO/IEC 11889-3. The code in this part of ISO/IEC 11889 augments ISO/IEC 11889-2 and ISO/IEC 11889-3 to provide a complete description of a TPM, including the supporting framework for the code that performs the command actions.

Any code in this part of ISO/IEC 11889 may be replaced by code that provides similar results when interfacing to the action code in ISO/IEC 11889-3. The behavior of code in this part of ISO/IEC 11889 that is not included in an annex is *normative*, as observed at the interfaces with ISO/IEC 11889-3 code. Code in an annex is provided for completeness, that is, to allow a full implementation of ISO/IEC 11889 from the provided code.

The code in ISO/IEC 11889-3 and this part of ISO/IEC 11889 is written to define the behavior of a compliant TPM. In some cases (e.g., firmware update), 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 ISO/IEC 11889-3 would be compliant.

The code in ISO/IEC 11889-3 and this part of ISO/IEC 11889 is not written to meet any particular level of conformance nor does ISO/IEC 11889 require that a TPM meet any particular level of conformance.

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 9797-2, *Information technology -- Security techniques -- Message Authentication Codes (MACs) -- Part 2: Mechanisms using a dedicated hash-function*
- ISO/IEC 10116:2006, *Information technology — Security techniques — Modes of operation for an n-bit block cipher*
- 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 11889-3, *Information technology — Trusted Platform Module Library — Part 3: Commands*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN