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STANDARD

ISO/IEC 14143-2

Second edition 2011-09-01

Information technology — Software measurement — Functional size measurement

Part 2:

Conformity evaluation of software size measurement methods to ISO/IEC 14143-1

Technologies de l'information — Mesurage du logiciel — Mesurage de la taille fonctionnelle

Partie 2: Évaluation de la conformité des méthodes de mesure de taille de logiciel à l'ISO/CEI 14143-1



ISO/IEC 14143-2:2011(E)

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 14143-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 7, *Software and systems engineering*.

This second edition cancels and replaces the first edition (ISO/IEC 14143-2:2002), of which it constitutes a minor revision.

ISO/IEC 14143 consists of the following parts, under the general title *Information technology* — *Software measurement* — *Functional size measurement*:

- Part 1: Definition of concepts
- Part 2: Conformity evaluation of software size measurement methods to ISO/IEC 14143-1
- Part 3: Verification of functional size measurement methods [Technical Report]
- Part 4: Reference model [Technical Report]
- Part 5: Determination of functional domains for use with functional size measurement [Technical Report]
- Part 6: Guide for use of ISO/IEC 14143 series and related International Standards

Introduction

Functional Size Measurement (FSM) is a technique used to measure the size of software by quantifying the Functional User Requirements of the software ¹⁾. The first published method to embrace this concept was Function Point Analysis, developed by Allan Albrecht in the late 1970s. Since then, numerous extensions and variations of the original method have been developed. The end user may have many variants from which to choose, each with its own advantages in specific situations. ISO/IEC 14143-1 was developed to define the concepts of FSM and provides a basis against which the user can compare all variants. This part of ISO/IEC 14143 was developed to provide a process for checking whether a Candidate FSM Method conforms to the provisions of ISO/IEC 14143-1. The output from this process can assist prospective users of the Candidate FSM Method in judging whether it is appropriate to their needs.

¹⁾ Refer to ISO/IEC 14143-1.

Information technology — Software measurement — Functional size measurement

Part 2:

Conformity evaluation of software size measurement methods to ISO/IEC 14143-1

1 Scope

This part of ISO/IEC 14143:

- establishes a framework for the conformity evaluation of a Candidate FSM Method against the provisions of ISO/IEC 14143-1;
- b) describes a process for conformity evaluation of whether a Candidate FSM Method meets the (type) requirements of ISO/IEC 14143-1 such that it is an actual FSM method, i.e. they are of the same type;
- c) describes the requirements for performing a conformity evaluation in order to ensure repeatability of the conformity evaluation process, as well as consistency of decisions on conformity and the final result;
- d) aims to ensure that the output from the conformity evaluation process is objective, impartial, consistent, repeatable, complete and auditable;
- e) provides informative guidelines for determining the competence of the conformity evaluation teams;
- f) provides an example checklist to assist in the conformity evaluation of a Candidate FSM Method; and
- g) provides an example template for the conformity evaluation report.

2 Normative references

The following referenced documents are indispensable for the application 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 14143-1, Information technology — Software measurement — Functional size measurement — Part 1: Definition of concepts