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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 18491.5-2010

**Information technology -- Software measurement -- Functional
size measurement -- Part 5: Determination of functional
domains for use with functional size measurement**

信息技术 软件测量 功能规模测量 第5部分：功能规模测量的功能域确定

(English Translation)

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Foreword

GB/T 18491 under "Information technology - Software measurement - Functional size measurement of" total title currently consists of the following six components.

--- Part 1. definition of the concept;

--- Part 2. software size measurement methods and conformity assessment GB/T 18491.1-2001's;

--- Part 3. Verification of functional size measurement methods;

--- Part 4. Reference model;

--- Part 5. domain functional size measurement is determined;

--- Part 6. GB/T 18491 series of standards and guidelines related to the use of standards.

This section GB/T 18491 Part 5.

This part identical with ISO/IEC TR14143-5:2004 "Information technology - Software measurement - Functional size measurement - Part 5. Power Domain can be measured to determine the scale "(in English). Due to the international standard ISO/IEC 14143-6:2006 released late on ISO/IEC TR 14143-5:2004, therefore, the original International Standard ISO/IEC TR14143-5:2004 Foreword is not involved in ISO/IEC 14143-6:2006.

In the ISO/IEC TR14143-5:2004 conversion-oriented section, added preface explained in Section 6 related.

This part made the following editorial changes.

--- According to national circumstances, deleting the original introduction of the last two paragraphs;

--- Since the original Chapter 7 Note 2 and the upper section of the text is repeated, when converted into national standards, it made the deletion process.

Appendix A of this section and Appendix B is an informative annex.

This part of the National Information Technology Standardization Technical Committee (SAC/TC28) and focal points.

This section is drafted. Shanghai computer software technology development center, China Electronics Standardization Institute responsible for drafting.

Introduction

Functional Size Measurement (FSM) is a technique to measure the size of software by quantifying the functional requirements of software users. Originally published contains this method of analysis is the concept developed by the AlanAlbercht in the late 1970s, function points. Thereafter, the original method of open it issued a number of extensions and variants. In a particular method or methods Albrecht subsequent functional size measurement methods applied to different classes Type of software, the declaration has been made a lot about the effectiveness and limitations. Examples of these types of software, including management information referenced Information systems (MIS), embedded software, process control software, decision support software, military software, engineering and real-time software.

The definition of "the type of software," the term is very broad. They have been widely used to distinguish between types of user functions performed by software (what it can do Mody), software performance problems, internal processing complexity, physical implementation needs and development environment. These terms or related functions Scale FUR features are not yet universally agreed definition. The results are as follows.

- a) For a specific FSM approach potential users to evaluate the method of measurement FUR specific set-scale applicability of one group Very difficult;
- b) the owner and developer of a FSM can not describe the method can be applied to functional domains of the FSM method.

This section GB/T 18491 by describing how to use the feature to determine the type of software FUR to illustrate these difficulties. In this section, the phrase "Software Type" defined by the term "functional domain" instead. In GB/T 18491.1-2001, the functional domain is defined as "based on Functional size measurement-related characteristics of a class of software FUR. " GB/T 18491.1-2001 requirements shall describe a FSM method

can be applied in its domain. The purpose of this section is a detailed description How to define the domain, and provides examples of methods for producing functional domains.

Information technology - Software measurement - Functional size measurement Part 5.

domain functional size measurement determined

1 Scope

This section GB/T 18491 describes the properties and functions of the original user requirements can be used to determine the functional domain (FUR) characteristic functional domains Management. Appendix A and Appendix B provides two examples of methods to achieve these principles.

Both methods can be used directly, or use local domains defined by the following method.

a) by the user FSM method to determine whether a particular FSM methods applicable to specific functional domains described FUR;

b) for a given domain FUR FUR set description belongs;

c) owned by the parties and designer FSM methods are described in the work in 18491.1-2001 GB/T general method applicable FSM Energy domains.

Appendix A and Appendix B of the method to determine the functional domains that it allows to compare different provenance FUR, and allows each

Availability species FSM methods were compared.

2 Normative references

The following documents contain provisions which, through reference GB/T 18491 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 18491.1-2001 Information technology - Software measurement - Functional size measurement - Part 1. definition of the concept (idt ISO/IEC 14143-1:1998)

3 Terms and Definitions

The following terms and definitions apply to this section.

FUR characteristic characteristic of FUR FUR distinguishable attribute that specifies a set of identification FUR owned domain is important.

Domain classification functional domain categorization Domain identification process in line

with the requirements of 5.1.

4 Abbreviations

FDC domain classification (functional domain categorization)

5 Requirements

General requirements 5.1 Functional Domain A domain should.

- a) is different from all other domains;
- b) is described by a set of functions related to the size and characteristics.