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**Systems and software engineering -- Lifecycle management --  
Guidelines for process description**

系统和软件工程 生存周期管理 过程描述指南

**(English Translation)**

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## Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard uses the translation method identical with ISO/IEC TR24774:2010 "Systems and software engineering life cycle management process described Said guide. " this standard by the National Information Technology Standardization Technical Committee (SAC/TC28) and focal points.

This standard was drafted. Shanghai computer software technology development center, China Electronics Standardization Institute, China Telecom CJSC Company Shanghai Branch, Shenzhen City Jiyang Automation Technology Co., Ltd., Shanghai Information Network Co., Ltd., Shanghai University of Engineering Science, Northeast University, Shanghai Industrial Technology Research Institute.

## Introduction

For an organization to function effectively, organizations must identify and manage numerous linked activities. It is a process or a group through the use of resources the input is converted to output activity. Typically, the output of a process becomes the input to the next process.

Many international standards, national standards and industry standards for the process reference model is described, but these processes are described in the format, content and the predetermined level is different. The purpose of this standard is to describe the process of reunification and allow the combination of different process from the reference model, the new simplified Development model and compare models in favor.

Through the extraction process described in the form of common features can be revised criteria to select the appropriate form of process descriptions. According to the provisions of this standard the format, content and level of provisions for the procedures described in the form of choice to provide guidance.

In the international standard, the definition of systems and software life cycle process belongs to the ISO/IEC working range JTC1/SC7/WG7 of.

Currently this area of international standards ISO/IEC 12207 "Systems and software engineering - Software life cycle processes", ISO/IEC 15288 "System and software systems engineering life cycle processes." And the process of definition of the relevant information items from the ISO/IEC 15289 "System and Software Engineering Cheng systems and software life cycle process "provides. Other international standards such as ISO/IEC 15939 "Systems and software engineering measurement process" and ISO/IEC 16085 "Risk management systems and software engineering", described in detail the process by collecting specific about the property and the implementation process Needs, providing a further description of the individual life cycle process. When an organization or project instantiated to add other details (Access Guidelines/quasi-out guidelines, roles, products).

Define process capability assessment belongs to ISO/IEC working range JTC1/SC7/WG10 is. This field existing international standards There ISO/IEC 15504-2 "Information technology - Process assessment - Part 2. Implementation Assessment." The standard provides a model set by an external process Requirements defined process capability assessment; based on title, description of the purpose and object of the process outputs to evaluate these descriptions compliant with ISO/IEC 15504-2 guidelines in "Process Reference Model". In addition to the attributes described in this standard, ISO/IEC 15504 definition uses Review Estimated index elements. Evaluation Index is an objective evidence to support appraisers in the process of rating properties judgments.

ISO/IEC JTC1/SC7/WG19 covers open distributed processing and modeling language for both areas. The Working Group to develop international Standard is a detailed process for other purposes provided representation symbols described.

This standard guidelines applicable to the process model developed for any purpose and to establish a uniform procedure for these process models description.

The intended audience is the standard setting process of standards and technical reports editor, working group members, assessors and other participants. The purpose is They choose to apply for the project from the content of this standard describes the procedures described property. Deeper purpose is that they choose the appropriate genus After sex, will refer to this standard provides guidelines for the application of these attributes.

This standard also applies to all parties involved in the process of defining the model. For example, ISO , national standards, industry standards or special interest Interest groups,

researchers and professional standards process appraiser. These process models can be used to define the process, implementation or evaluation.

Systems and Software Engineering Life cycle management process described in Guide

## 1 Scope

The standard descriptive elements identified by their statements rules provide guidance for the process described, the provisions of the following elements of the process described.

---title;

---purpose;

--- Output thereof;

---activity;

---task;

--- Information items.

In addition, the standard also describes a process view.

This standard does not describe how the process of composition, or how the process of being integrated into a larger framework or architecture.

## 2 Terms and definitions

The following terms and definitions apply to this document.

Activities activity

Poly tasks set in the process.

[ISO/IEC 15288:2008] 2.2 Information items informationitem Individually identifiable body of information systems or software life cycle to produce and store for use by man.

[ISO/IEC 15289:2006] 2.3 Life cycle Systems, products, services, projects or other artificial entity from the beginning to the end of the evolution.

[ISO/IEC 15288:2008] 2.4 Life cycle model Framework and life cycle related activities and processes, it can be used as a common reference exchange and understanding. Life cycle can not be organized into the same stage.

[ISO/IEC 15288:2008] 2.5 Process the inputs into outputs a set of interrelated activities or interacting.

[GB/T 19000-2008]