TECHNICAL REPORT

ISO/IEC TR 20000-12

Information technology — Service management —

Part 12:
Guidance on the relationship between ISO/IEC 20000-1:2011 and service management frameworks: CMMI-SVC®

Technologies de l'information — Gestion des services —

Partie 12: Directives sur la relation entre l'ISO/IEC 20000-1:2011 et les cadres de management du service: CMMI-SVC ®

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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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/IEC JTC 1, *Information technology*, SC 40, *IT Service Management and IT Governance*.

A list of all parts in the ISO/IEC 20000 series can be found on the ISO website and in the Introduction of this document.

Introduction

This document can assist readers in relating the requirements specified in ISO/IEC 20000-1:2011 to supporting text in one of the most commonly used service management frameworks, CMMI-SVC. Service providers can refer to this guidance as a cross-reference between the two documents to help them to plan and implement a service management system (SMS).

ISO/IEC 20000-1:2011 is the International Standard for service management and specifies requirements that can be used as the basis of a conformity assessment. ISO/IEC 20000-1:2011 can be used in different ways, including:

a) as a source of requirements for service providers on the design, transition, delivery and improvement of services and service management capabilities;

b) to establish a consistent approach for an organization to use with all of its service providers, including those in its supply chain;

c) as an unbiased basis to assess, measure and report service delivery and management capabilities including performance of specific service management processes;

d) as a set of criteria for audit and assessment of a service provider's SMS, including service management processes.

ISO/IEC 20000-1:2011 specifies an integrated process approach when the service provider plans, establishes, implements, operates, monitors, reviews, maintains and improves an SMS. The services can be delivered to internal or external customers.

In ISO/IEC 20000-1:2011, a service is defined as a means of delivering value for the customer by facilitating results that the customer wants to achieve. The definition further notes that a service is generally intangible and that a service can also be delivered to the service provider by a supplier, an internal group or a customer acting as a supplier.

The Capability Maturity Model Integration for Services (CMMI-SVC) draws on concepts and practices from other CMMI models and other service-focused frameworks and models. The CMMI-SVC model covers the activities required to establish, deliver, and manage services. As defined in the CMMI context, a service is an intangible, non-storable product. The CMMI-SVC model has been developed to be compatible with this broad definition.

Service providers can implement and improve the SMS using the requirements specified in ISO/IEC 20000-1, the guidance in the other parts of the ISO/IEC 20000 series and CMMI-SVC. Both the ISO/IEC 20000 series and CMMI-SVC provide guidance to identify, plan, design, deliver, and improve services that deliver value to the business and its customers.

ISO/IEC 20000 consists of the following parts, under the general title Information technology — Service management:

— Part 1: *Service management system requirements*

— Part 2: *Guidance on the application of service management systems*

— Part 3: *Guidance on scope definition and applicability of ISO/IEC 20000-1*

— Part 4: *Process reference model* [Technical Report]

— Part 5: *Exemplar implementation plan for ISO/IEC 20000-1* [Technical Report]

— Part 6: *Requirements for bodies providing audit and certification of service management systems*[1])

— Part 9: *Application of ISO/IEC 20000-1 to cloud services* [Technical Report]

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1) To be published.

— Part 10: *Concepts and terminology* [Technical Report]

— Part 11: *Guidance on the relationship between ISO/IEC 20000-1:2011 and service management frameworks: ITIL®*[2] [Technical Report]

— Part 12: *Guidance on the relationship between ISO/IEC 20000-1:2011 and service management frameworks: CMMI-SVC®*[3] [Technical Report]

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2) ITIL® is a registered trademark of AXELOS.

3) CMMI® and CMMI-SVC® are registered trademarks of the CMMI Institute.

Information technology — Service management —

Part 12:
Guidance on the relationship between ISO/IEC 20000-1:2011 and service management frameworks: CMMI-SVC ®

1   Scope

This document provides guidance on the relationship between ISO/IEC 20000-1:2011 and CMMI-SVC V1.3 (through Maturity Level 3). Service providers can refer to this guidance as a cross-reference between the two documents to help them to plan and implement an SMS. An organization employing the practices in the indicated CMMI-SVC process areas can conform to many of the associated ISO/IEC 20000-1 requirements.

The guidance in Clause 4 describes how CMMI-SVC can support the demonstration of conformity to ISO/IEC 20000-1:2011. A description of the purpose and content of both publications in 4.1 and 4.2 is followed by Clause 5, which relates process areas in CMMI-SVC to clauses in ISO/IEC 20000-1:2011. The tables in Annexes A and B relate terms, clauses, and paragraphs in ISO/IEC 20000-1:2011 to CMMI-SVC. Table B.1 is a simplified summary of the correlation seen in Table 3 for those readers who want an overview. The tables indicate those aspects of ISO/IEC 20000-1:2011 and CMMI-SVC that represent the greatest link between the two sets of documents, from the perspective of a service provider.

This document can be used by any organization or person who wishes to understand how CMMI-SVC can be used with ISO/IEC 20000-1:2011, including the following:

a)   a service provider that intends to demonstrate conformity to the requirements of ISO/IEC 20000-1:2011 and is seeking guidance on the use of CMMI-SVC to establish and maintain the SMS and the services;

b)   a service provider that has demonstrated conformity to the requirements of ISO/IEC 20000-1:2011 and is seeking guidance on ways to use CMMI-SVC to improve the SMS and the services;

c)   a service provider that already uses CMMI-SVC and is seeking guidance on how CMMI-SVC can be used to support efforts to demonstrate conformity to the requirements specified in ISO/IEC 20000-1:2011;

d)   an appraiser or assessor who wishes to understand the use of CMMI-SVC as support for the requirements specified in ISO/IEC 20000-1:2011.

This document can also be used with the other parts of the ISO/IEC 20000 series.

2   Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 20000-1:2011, *Information technology — Service management — Part 1: Service management system requirements*