
**Information technology — Service
management —**

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

Technologies de l'information — Gestion des services —

*Partie 2: Directives relatives à l'application des systèmes de
management des services*

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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.

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) or the IEC list of patent declarations received (see <http://patents.iec.ch>).

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

For an explanation of the voluntary nature of standards, 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 www.iso.org/iso/foreword.html.

This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 40, *IT Service Management and IT Governance*.

This third edition cancels and replaces the second edition (ISO/IEC 20000-2:2012), which has been technically revised.

The main changes from the previous edition are as follows:

- a) updated to align with ISO/IEC 20000-1:2018;
- b) improved consistency and clarity of guidance for each clause with these consistent elements: Required activities, Explanation (which includes purpose statement), and Other information (which includes guidance on documented information and roles and authorities);
- c) added an Annex ([Annex A](#)) that compiles all of the mandatory documented information called for in ISO/IEC 20000-1.

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

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document provides guidance for establishing, implementing, maintaining, and continually improving a service management system (SMS). An SMS supports the management of the service lifecycle, including the planning, design, transition, delivery, and improvement of services, which fulfil agreed requirements and deliver value for customers, users, and the organization delivering the services.

The adoption of an SMS is a strategic decision for an organization and is influenced by the organization's objectives, the governing body, other parties involved in the service lifecycle and the need for effective and resilient services. The guidance in this document aligns with ISO/IEC 20000-1:2018. This document (ISO/IEC 20000-2) is intentionally independent of guidance for the management of any specific type of service. The organization can use a combination of generally accepted frameworks and its own experience. Improvement for service management can use common improvement methodologies and apply them to the SMS and the services. Appropriate tools for service management can be used to support the SMS. Implementation and operation of an SMS provides ongoing visibility, control of services, and continual improvement, leading to greater effectiveness and efficiency. Improvement for service management applies to the SMS and the services.

The clause structure in this document (i.e. clause numbering and sequence) aligns with ISO/IEC 20000-1:2018 and the terms used in this document align with ISO/IEC 20000-1:2018 and ISO/IEC 20000-10:2018.

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Information technology — Service management —

Part 2:

Guidance on the application of service management systems

1 Scope

1.1 General

This document provides guidance on the application of a service management system (SMS) based on ISO/IEC 20000-1. It provides examples and recommendations to enable organizations to interpret and apply ISO/IEC 20000-1, including references to other parts of ISO/IEC 20000 and other relevant standards.

[Figure 1](#) illustrates an SMS with the clause content of ISO/IEC 20000-1. It does not represent a structural hierarchy, sequence, or authority levels.

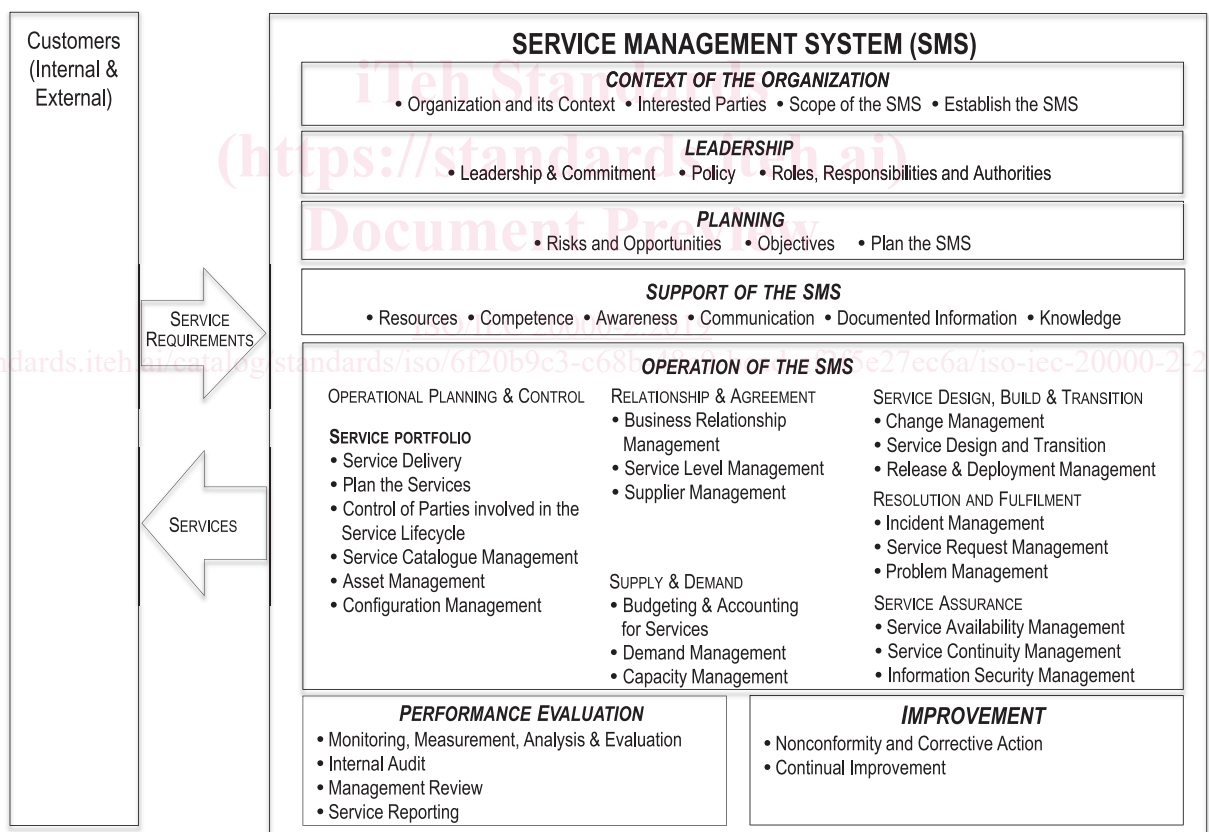


Figure 1 — Service management system

The structure of clauses is intended to provide a coherent presentation of requirements, rather than a model for documenting an organization's policies, objectives, and processes. Each organization can choose how to combine the requirements into processes. The relationship between each organization and its customers, users, and other interested parties influences how the processes are implemented. However, an SMS as designed by an organization cannot exclude any of the requirements specified in ISO/IEC 20000-1.

The term 'service' as used in this document refers to the services in the scope of the SMS. The term 'organization' as used in this document refers to the organization in the scope of the SMS. The organization in the scope of the SMS can be part of a larger organization, for example an IT department of a large corporation. The organization manages and delivers services to customers and can also be referred to as a service provider. Any use of the terms 'service' or 'organization' with a different intent is distinguished clearly in this document. The term 'delivered', as used in this document, can be interpreted as all of the service lifecycle activities that are performed in addition to daily operational activities. Service lifecycle activities include planning, design, transition, delivery, and improvement.

1.2 Application

The guidance in this document is generic and is intended to be applicable to any organization applying an SMS, regardless of the organization's type or size, or the nature of the services delivered. While it can be used 'regardless of the organization's type or size, or the nature of the services delivered', ISO/IEC 20000-1 has its roots in IT. It is intended for service management of services using technology and digital information. The examples given in this document illustrate a variety of uses of ISO/IEC 20000-1.

The service provider is accountable for the SMS and therefore cannot ask another party to fulfil the requirements of ISO/IEC 20000-1:2018, Clauses 4 and 5. For example, the organization cannot ask another party to provide the top management and demonstrate top management commitment or to demonstrate the control of parties involved in the service lifecycle.

Some activities in ISO/IEC 20000-1:2018, Clauses 4 and 5 can be performed by another party under the management of the organization. For example, an organization can ask another party to create the initial service management plan as a key document for the SMS. The plan, once created and agreed, is the direct responsibility of and is maintained by the organization. In these examples, the organization is using other parties for specific short-term activities. The organization has accountability, authorities, and responsibility for the SMS. The organization can therefore demonstrate evidence of fulfilling all of the requirements of ISO/IEC 20000-1:2018, Clauses 4 and 5.

For ISO/IEC 20000-1:2018, Clauses 6 to 10, an organization can show evidence of meeting all of the requirements itself. Alternatively, an organization can show evidence of retaining accountability for the requirements when other parties are involved in meeting the requirements in ISO/IEC 20000-1:2018, Clauses 6 to 10. Control of other parties involved in the service lifecycle can be demonstrated by the organization (see 8.2.3). For example, the organization can demonstrate evidence of controls for another party who is providing infrastructure service components or operating the service desk including the incident management process.

The organization cannot demonstrate conformity to the requirements in ISO/IEC 20000-1 if other parties are used to provide or operate *all* services, service components, or processes within the scope of the SMS. However, if other parties provide or operate only *some of* the services, service components, or processes, the organization can normally demonstrate evidence of meeting the requirements specified in ISO/IEC 20000-1.

The scope of this document excludes the specification of products or tools. However, ISO/IEC 20000-1 and this document can be used to help with the development or acquisition of products or tools that support the operation of an SMS.

1.3 Structure

This document follows the clauses in ISO/IEC 20000-1 and, from [Clause 4](#) onwards, provides three sections per clause or sub-clause:

- a) *Required activities*: a summary of the activities required by this clause in ISO/IEC 20000-1 Note that this summary does not replicate the requirement statements in ISO/IEC 20000-1 or add new requirements, but simply describes the activities;

- b) *Explanation*: an explanation of the purpose of the clause and practical guidance on clause contents, including examples and recommendations on how to implement the requirements of ISO/IEC 20000-1. When relevant, it refers to other parts of ISO/IEC 20000 and other relevant standards;
- c) *Other information*: guidance on roles and responsibilities and on documented information supporting the implementation of an SMS. Further relevant information can also be included.

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 20000-10, *Information technology — Service management — Part 10: Concepts and vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 20000-10 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

4 Context of the organization

4.1 Understanding the organization and its context

4.1.1 Required activities

The organization determines external and internal issues relevant to its purpose and affecting its ability to achieve the intended outcomes of the SMS.

4.1.2 Explanation

The purpose of this required activity is to set the context by determining those issues that are relevant to the organization's purpose and influence its ability to achieve the intended outcomes of the SMS. These outcomes include the delivery of value to its customers. Issues can vary, e.g. internal or external, positive or negative. All issues taken together provide the basic context in which the organization establishes its SMS.

NOTE The word 'issue' in this context can be factors or attributes that have a positive or negative impact. These are important topics, factors, or attributes for the organization in the context of its ability to deliver services of an agreed quality to its customers.

To implement an SMS successfully, the organization identifies and documents its internal and external context. Context includes the nature of the organization itself, the needs and expectations of other interested parties that have a stake in the SMS, and the scope of the SMS itself. Based on an understanding of these issues, the SMS can be established.

Early in the planning stage, the organization should establish how ISO/IEC 20000-1 is applicable to the organization's context, so that the initial scope of the SMS can be documented. Failing to identify the context, interested parties, and scope can lead to an unsuccessful or inefficient SMS.

Because external and internal issues can change, the organization can review its context at planned intervals and through management review.

EXAMPLE Internal issues can include policies, resources, capabilities, people, skills and knowledge, organizational structure, governance, culture, internal customer demands, and finance. External issues can include market, political, economic, and environmental influences, competition, laws and regulations, external customer demands, and the likelihood of events that could affect the services.

4.1.3 Other information

A list of internal and external issues affecting the SMS is developed and should be documented.

Establishing the context of the organization is completed at the top management level, who may have the assistance of technical and business analysts.

4.2 Understanding the needs and expectations of interested parties

4.2.1 Required activities

The organization determines interested parties relevant to the SMS and the services and their requirements.

4.2.2 Explanation

The purpose of this required activity is to ensure that the organization identifies requirements of relevant interested parties to support the SMS to deliver services. An interested party is a person or group that can affect or can be affected by a decision or activity related to the SMS. They can be internal or external to the organization. An interested party can also be known as a stakeholder.

EXAMPLE Interested parties can include customers and customer representatives, top executives, management representatives, account management, personnel, support functions within the organization (e.g. technology support, human resources, facilities, legal, recruitment, procurement), suppliers, partners, regulators, auditors, trade and professional associations, and competitors.

The organization identifies the interested parties and their relevance to the achievement of service management objectives or to the delivery of services, including their requirements for the SMS or the services. An interested party can affect the performance and effectiveness of the SMS and the services, influence the market, or create and mitigate risks.

Interested parties' requirements can include the following:

- a) service requirements such as service level targets, capacity, performance, service level requirements, service continuity, information security, or availability requirements;
- b) legal and regulatory requirements imposed by external authorities, such as national or regional laws and regulations;
- c) contractual obligations to partners, customers, or suppliers.

4.2.3 Other information

The organization documents a list of interested parties with their specific interests and their requirements for the SMS and the services.

Identifying interested parties is completed at the top management level, who may have the assistance of technical and business analysts.

4.3 Determining the scope of the service management system

4.3.1 Required activities

The organization determines the boundaries and applicability of the SMS to establish its scope.

4.3.2 Explanation

The purpose of this required activity is to use the information gathered about the issues and requirements of interested parties to define exactly what part of the organization and what services are to be included within the SMS. Establishing the scope is therefore a key activity that determines the necessary foundation for all other activities in the implementation of the SMS.

The organization takes into account the following inputs when documenting the scope of the SMS:

- a) the internal and external issues;
- b) the needs and expectations of internal and external interested parties;
- c) what services or types of services are offered to customers, e.g.
 - a single service, group of services, or all services;
 - IT services, cloud services;
 - technology services to support facilities management, business process outsourcing;
 - technology services to support any sector's business such as telecommunications, finance, retail, tourism, utilities;
- d) the number and type of customers, e.g. a single customer, a specific customer sector, external or internal customers;
- e) the locations from which the services are to be delivered.

The services considered at c) can be all or some of the services that are agreed to be in the scope of the SMS. The services in the scope of the SMS can be all or some of the services delivered by the organization. The services in the scope of the SMS can be listed individually or grouped. The name of the organization that manages and provides the services is included; however, the scope statement should not include the names of other parties contributing to the delivery of the service, such as outsourcing partners.

4.3.3 Other information

The organization documents a scope statement for the SMS, following the guidance provided in ISO/IEC 20000-3.

Defining a scope statement for the SMS is completed at the top management level; subject matter experts such as technical and business analysts may assist.

4.4 Service management system

4.4.1 Required activities

The organization establishes, implements, maintains, and continually improves the SMS.

4.4.2 Explanation

The purpose of this required activity is to ensure that all required elements are assembled to establish, implement, maintain, and continually improve the SMS.

Once the context, interested parties and their requirements, and the scope have been agreed, the organization decides how the requirements in ISO/IEC 20000-1 are to be implemented as processes. For example, are the processes in the SMS going to reflect exactly the clauses in ISO/IEC 20000-1 or will they be combined, separated, or named in a different way?

To gain the most value from processes, it is essential to keep the processes current. An approach for routine process evaluation will benefit the organization. As processes are deployed and implemented, routine reviews include a review of their performance to optimize the process results.

The plans and aspirations of the organization can be considered when establishing and implementing the SMS so that maintenance and continual improvement can be performed efficiently. See [Clause 6](#) for more information.

4.4.3 Other information

The organization documents the SMS to meet the requirements of ISO/IEC 20000-1:2018, 7.5.

Top management provides the basis and the authority to proceed with the establishment of the SMS. The responsibility for establishing the SMS may then be delegated to authorised personnel in the organization.

5 Leadership

5.1 Leadership and commitment

5.1.1 Required activities

Top management demonstrates leadership and commitment with respect to the SMS.

5.1.2 Explanation

The purpose of this required activity is to ensure that top management demonstrates leadership and commitment to support the establishment and operation of an SMS. Top management is defined as 'the person or group of people who directs and controls an organization at the highest level.' Top management, i.e. the level of management in the organization that has the authority and capability to initiate the development of an SMS, also provides the needed resources for the continuing support of the SMS and is accountable for the achievement of the objectives and intended outcomes of the SMS and services. The right level of involvement and commitment is essential to successfully implement an SMS in support of the services it provides to customers.

Top management is accountable for ensuring that the SMS and the services are reviewed regularly. Further information about management reviews can be found in [9.3](#).

Top management establishes a service management policy, as well as service management objectives, describing their high-level vision of, and targets for, service management in the organization. Top management does so in a way that is aligned with the overall business objectives and strategic direction of the organization, as the policy and objectives are there to support the organization's business.

Based on the service management policy and objectives, top management directs the development and maintenance of a service management plan, which is the overarching document that provides a summary and describes the intent of the SMS for the organization.

Top management assigns levels of authority, appropriate to the size and complexity of the organization, and delegates responsibility, so that the appropriate personnel are authorized to make decisions related to the SMS and the services.

Top management determines what constitutes value for the organization and for the customers. The creation of value from services includes realizing benefits at an optimal resource level while managing risk. An asset, service component, and a service are examples that can be considered value. Internally,