
**Information technology — Process
assessment — Application of
conformity assessment methodology
to the assessment to process quality
characteristics and organizational
maturity**

*Technologies de l'information — Évaluation du processus —
Application de la méthodologie de l'évaluation de la conformité à
l'évaluation de circuler les caractéristiques de qualité et la maturité
organisationnelle*



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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 WTO principles in the Technical Barriers to Trade (TBT), see the following URL: [Foreword — Supplementary information](#).

The committee responsible for this document is ISO/IEC JTC 1, *Information technology*, Subcommittee SC 7, *Software and systems engineering*.

Introduction

JTC 1's policy on conformity assessment is stated in the Consolidated JTC1 Supplement, 2015. To promote consistent implementation of standards, JTC 1 has resolved that it shall be a major contributor to international acceptance of conformity assessment procedures and specifications for IT related areas, and that it shall work to support an environment which encourages worldwide recognition of conformity assessment results.

Each JTC 1 Subcommittee has the authority and responsibility to specify the conformity assessment methodology applicable to any distinct area of Information Technology that is entirely within the scope of that Subcommittee.

In the conformity assessment area, JTC 1's objectives include the facilitation of mutual recognition of accreditation, test reports, certification and registration in the IT field, primarily by developing appropriate standards, and recognition of Supplier's Declaration as a legitimate statement of conformity.

To support JTC1's objectives of mutual recognition of accreditation, test reports, certification, registration, and recognition of a supplier's declaration of conformity, a conformity assessment methodology for the assessment of process quality characteristics and organizational process maturity is defined in this International Standard which provides for an environment for and encourages the worldwide recognition of conformity assessment results.

The overall framework for conformity assessment follows the approach defined in ISO/IEC 17020, which covers *inter alia* the functions of bodies whose work includes the examination of processes, and the determination of their conformity, with requirements, and the subsequent reporting of results of these activities to clients and, when required, to supervisory authorities. Such work normally requires the exercise of professional judgement in providing the service, in particular when assessing conformity.

ISO/IEC 17020 is used in the context of first, second and third party assessments resulting in the issuance of a conformity assessment report and statement of conformity. Where continuing assurance is needed or desirable to maintain the validity of an assessment result, the scope of conformity assessment can be extended to include periodic surveillance within a defined cycle

Additionally, ISO/IEC 17065 can be used as an alternative approach but only in the context of a third-party certification body using an audit approach typically with the issuance non conformity reports.

This International Standard has been developed following application of use in the field and in consultation with key stakeholders, national accreditation bodies, ISO's policy committee for conformity assessment (CASCO) and the International Certification Network (IQNet Association).

Information technology — Process assessment — Application of conformity assessment methodology to the assessment to process quality characteristics and organizational maturity

1 Scope

This International Standard aims to define the application of a conformity assessment methodology, based on the existing published ISO/IEC standards and guides, to the process assessment of process quality characteristics and organizational process maturity, performed in accordance with the requirements of the ISO/IEC 33001 to ISO/IEC 33099 family of process assessment standards,

Conformity assessment, also known as compliance assessment, is any activity to determine, directly or indirectly, that a process, product, or service meets relevant standards and fulfils relevant requirements. The subject of conformity assessment activities may include testing, inspection or certification.

Conformity assessment in this International Standard can be performed by various types of bodies that meet the requirements of ISO/IEC 17020.

The term “inspection” as used in ISO/IEC 17020 is synonymous with the term “process assessment” as defined in ISO/IEC 33001 and used throughout the ISO/IEC 33001 to ISO/IEC 33099 family of standards.

While a process assessment may be performed solely according to the ISO/IEC 33002 requirements for performing an assessment, performing a process assessment in the context of conformity assessment according to a conformity assessment scheme brings with it additional requirements. Conformity assessment involves a functional approach consisting of a number of stages: selection–determination–review and attestation, plus surveillance when there is a need to provide continuing assurance of conformity.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 33001:2015, *Information technology — Process assessment — Concepts and terminology*

ISO/IEC 33002:2015, *Information technology — Process assessment — Requirements for performing process assessment*

ISO/IEC 17000, *Conformity assessment — Vocabulary and general principles*

ISO/IEC 17020:2012, *Conformity assessment — Requirements for the operation of various types of bodies performing inspection*