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Systems and software engineering — Software life cycle processes

*Ingénierie des systèmes et du logiciel — Processus du cycle de vie
du logiciel*

Withdrawn



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ISO/IEC 12207:2008(E)
IEEE Std 12207™-2008
(Revision of
IEEE/EIA 12207.0-1996)

Systems and software engineering — Software life cycle processes

Sponsor

Software & Systems Engineering Standards Committee
of the
IEEE Computer Society



Abstract: This International Standard establishes a common framework for software life cycle processes, with well-defined terminology, that can be referenced by the software industry. It applies to the acquisition of systems and software products and services, to the supply, development, operation, maintenance, and disposal of software products and the software portion of a system, whether performed internally or externally to an organization. Those aspects of system definition needed to provide the context for software products and services are included. Software includes the software portion of firmware. This revision integrates ISO/IEC 12207:1995 with its two amendments and was coordinated with the parallel revision of ISO/IEC 15288:2002 (System life cycle processes) to align structure, terms, and corresponding organizational and project processes. This standard may be used stand alone or jointly with ISO/IEC 15288, and supplies a process reference model that supports process capability assessment in accordance with ISO/IEC 15504-2 (Process assessment). An annex provides support for IEEE users and describes relationships of this International Standard to IEEE standards.

Keywords: acquisition, agreement, assessment, audit, configuration management, development, maintenance, disposal, operation, process reference model, process improvement, quality assurance, retirement, supply, validation, verification

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International Standard ISO/IEC 12207:2008(E)

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

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ISO/IEC 12207 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 7, *Software and systems engineering*.

This second edition cancels and replaces the first edition (ISO/IEC 12207:1995), which has been technically revised. It also incorporates the Amendments ISO/IEC 12207:1995/Amd.1:2002 and ISO/IEC 12207:1995/Amd.2:2004.

Changes in this revision of ISO/IEC 12207 were developed in conjunction with a corresponding revision of ISO/IEC 15288. The purpose of these revisions is to better align the two International Standards to facilitate their joint use. This alignment is the first step toward harmonization of the structures and contents of the two International Standards, while supporting the requirements of the assessment community. This alignment provides the foundation to facilitate evolution to an integrated and fully harmonized treatment of life cycle processes. This International Standard was developed with the following goals:

- incorporate and rationalize both Amendments;
- provide a common terminology between the revision of ISO/IEC 15288 and ISO/IEC 12207;
- where applicable, provide common process names and process structure between the revision of the ISO/IEC 15288 and this International Standard;
- enable the user community to evolve towards fully harmonized standards and to provide a stable standard, while maximizing backward compatibility; and
- leverage ten years of experience with the development and use of ISO/IEC 12207 and ISO/IEC 15288.

A subsequent revision is intended to achieve a fully harmonized view of the system and software life cycle processes. Identified areas to address in the future include: common process purposes and outcomes, architecture of the standards, level of prescription of activities and tasks, life cycle treatments, treatment of products and services, common verification and validation concepts, common configuration management concepts, deferred recommendations and alignment with other applicable standards.

The IEEE Computer Society collaborated with ISO/IEC JTC 1 in the development of this International Standard. *IEEE/EIA 12207.0-1996, Industry Implementation of International Standard ISO/IEC 12207:1995 Standard for Information Technology – Software Life Cycle Processes*, was one of the base documents used in the development of this International Standard.



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Introduction

ISO/IEC 12207 was published on 1 August 1995 and was the first International Standard to provide a comprehensive set of life cycle processes, activities and tasks for software that is part of a larger system, and for stand alone software products and services. That International Standard was followed in November 2002 by ISO/IEC 15288 which addressed system life cycle processes. The ubiquity of the software meant that the software and its design processes should not be considered separately from those systems, but be considered as an integral part of the system and system design processes. The ISO/IEC 12207 Amendments in 2002 and 2004 added process purpose and outcomes to the International Standard and established a Process Reference Model in accordance with the requirements of ISO/IEC 15504-2.

This International Standard, a revision of the amended ISO/IEC 12207, is an initial step in the SC7 harmonization strategy to achieve a fully integrated suite of system and software life cycle processes and guidance for their application.

This revision integrates ISO/IEC 12207:1995 with its two Amendments and applies SC7 guidelines for process definition to support consistency and improved usability. Project execution was carefully coordinated with the parallel revision of ISO/IEC 15288:2002 to align structure, terms, and corresponding organizational and project processes.

This International Standard can be used in one or more of the following modes:

- By an organization — to help establish an environment of desired processes. These processes can be supported by an infrastructure of methods, procedures, techniques, tools and trained personnel. The organization may then employ this environment to perform and manage its projects and progress systems through their life cycle stages. In this mode this International Standard is used to assess conformance of a declared, established set of life cycle processes to its provisions.
- By a project — to help select, structure and employ the elements of an established set of life cycle processes to provide products and services. In this mode this International Standard is used in the assessment of conformance of the project to the declared and established environment.
- By an acquirer and a supplier — to help develop an agreement concerning processes and activities. Via the agreement, the processes and activities in this International Standard are selected, negotiated, agreed to and performed. In this mode this International Standard is used for guidance in developing the agreement.
- By organizations and assessors — to perform assessments that may be used to support organizational process improvement.

This International Standard contains requirements in four Clauses: Clause 6, which defines the requirements for the system life cycle processes, Clause 7, which defines the requirements for specific software life cycle processes, clauses of Annex A, which provides requirements for tailoring of this International Standard and clauses of Annex B, which provides a Process Reference Model (PRM) which may be used for assessment purposes.

Five informative annexes support the harmonization strategy initiated by this revision.

- Annex C expands on history and rationale for the changes, and provides high-level traceability among the International Standards which were used as the inputs to this revision.
- Annex D describes the alignment of the processes of ISO/IEC 15288 and ISO/IEC 12207 — a key focus of this revision.
- Annex E provides an example of a process view for Usability, intended to illustrate how a project might assemble processes, activities and tasks of ISO/IEC 12207 to provide focused attention to the achievement of product characteristics that have been selected as being of special interest.

- Annex F contains some example process descriptions that are considered useful to some readers of this International Standard.
- Annex G provides support for IEEE users and describes relationships of this International Standard to IEEE standards.

Readers of this International Standard are advised to consult Clause 5 to gain understanding of the key concepts used.

NOTE A future Technical Report (ISO/IEC TR 24748) will describe the relations between this International Standard and ISO/IEC 15288:2008.

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IEEE Introduction

This introduction is not part of IEEE Std 12207™-2008, Systems and Software Engineering—Software Life Cycle Processes.

IEEE Std 12207™-2008 and IEEE Std 15288™-2008 are identical to ISO/IEC 12207:2008 and ISO/IEC 15288:2008. Therefore, all references to ISO/IEC 12207 or ISO/IEC 15288 apply equally well to their IEEE counterparts. Further details regarding relationships to IEEE standards can be found in Annex G.

This standard replaces IEEE/EIA 12207.0-1996, *Industry Implementation of International Standard ISO/IEC 12207: 1995 Standard for Information Technology – Software Life Cycle Processes*, which was an adoption with changes of ISO/IEC 12207:1995. Users of the earlier standard may be interested to know what will happen to its companions, IEEE/EIA 12207.1-1996 and IEEE/EIA 12207.2-1997. There is currently a project underway to replace IEEE/EIA 12207.1 with an adoption of ISO/IEC 15289. Completion of the current project will render IEEE/EIA 12207.2 obsolete; it will probably be withdrawn unless there is a demonstration of interest to revise it.

The original ISO/IEC 12207 was published on 1 August 1995 and was the first international standard to provide a comprehensive set of life cycle processes, activities and tasks for software that is part of a larger system, and for stand alone software products and services. That international standard was followed in November 2002 by ISO/IEC 15288 which addressed system life cycle processes.

IEEE cooperated with the Electronic Industries Alliance (EIA) in adopting ISO/IEC with changes to become IEEE/EIA 12207-1996. In 2004, IEEE performed an identical adoption of ISO/IEC 15288:2002.

The ISO/IEC 12207 amendments in 2002 and 2004 added process purpose and outcomes to the International Standard and established a Process Reference Model in accordance with the requirements of ISO/IEC 15504-2. IEEE did not pick up these amendments, preferring a stable base for the users of its standard.

This new revision of ISO/IEC 12207 is the product of a coordinated effort by IEEE and ISO/IEC JTC 1/SC 7. The base documents for the revision included the ISO/IEC standard and its amendments, and the IEEE/EIA standard and its unique material.

This revision integrates ISO/IEC 12207:1995 with its two Amendments and applies SC7 guidelines for process definition to support consistency and improved usability. Project execution was carefully coordinated with the parallel revision of ISO/IEC 15288:2002 to align structure, terms, and corresponding organizational and project processes.

This revised standard is a step in the SC7 harmonization strategy to achieve a fully integrated suite of system and software life cycle processes and guidance for their application. It is also an important step in the shared strategy of ISO/IEC JTC 1/SC 7 and the IEEE to harmonize their respective collections of standards. The new editions of ISO/IEC 12207 and ISO/IEC 15288, and their identical IEEE editions, will provide a single, shared baseline of systems and software life cycle processes applicable to both ISO/IEC and the IEEE standards collections.

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Errata, if any, for this and all other standards can be accessed at the following URL: <http://standards.ieee.org/reading/ieee/updates/errata/index.html>. Users are encouraged to check this URL for errata periodically.

Interpretations

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Contents

Page

Introduction	vi
1 Overview	1
1.1 Scope	1
1.2 Purpose	1
1.3 Limitations	1
2 Conformance	2
2.1 Intended usage	2
2.2 Full conformance	2
2.3 Tailored conformance	2
3 Normative references	2
4 Terms and definitions	3
5 Application of this International Standard	9
5.1 Key concepts of this International Standard	9
5.1.1 Relationship of software products and software services	9
5.1.2 Relationship between systems and software	9
5.1.3 Organizations and parties	10
5.1.4 Organization-level and project-level adoption	10
5.1.5 Tailoring	11
5.1.6 Temporal relationships among the processes	11
5.1.7 Evaluation versus verification, and validation	11
5.1.8 Criteria for processes	11
5.1.9 Description of processes	11
5.1.10 General Characteristics of processes	12
5.1.11 Decomposition of processes	12
5.1.12 Life cycle models and stages	12
5.2 Organization of this International Standard	13
5.2.1 Categories of Life Cycle Processes	13
5.2.2 Summary of Life Cycle Processes	14
5.2.3 Process Reference Model	18
6 System Life Cycle Processes	18
6.1 Agreement Processes	18
6.1.1 Acquisition Process	18
6.1.2 Supply Process	22
6.2 Organizational Project-Enabling Processes	25
6.2.1 Life Cycle Model Management Process	25
6.2.2 Infrastructure Management Process	26
6.2.3 Project Portfolio Management Process	27
6.2.4 Human Resource Management Process	29
6.2.5 Quality Management Process	31
6.3 Project Processes	32
6.3.1 Project Planning Process	32
6.3.2 Project Assessment and Control Process	33
6.3.3 Decision Management Process	34
6.3.4 Risk Management Process	36
6.3.5 Configuration Management Process	38
6.3.6 Information Management Process	39
6.3.7 Measurement Process	41
6.4 Technical Processes	42
6.4.1 Stakeholder Requirements Definition Process	42
6.4.2 System Requirements Analysis Process	45
6.4.3 System Architectural Design Process	46

6.4.4	Implementation Process	47
6.4.5	System Integration Process	47
6.4.6	System Qualification Testing Process	48
6.4.7	Software Installation Process	50
6.4.8	Software Acceptance Support Process	51
6.4.9	Software Operation Process	51
6.4.10	Software Maintenance Process.....	53
6.4.11	Software Disposal Process	56
7	Software Specific Processes.....	57
7.1	Software Implementation Processes.....	57
7.1.1	Software Implementation Process.....	57
7.1.2	Software Requirements Analysis Process	59
7.1.3	Software Architectural Design Process	60
7.1.4	Software Detailed Design Process	61
7.1.5	Software Construction Process.....	63
7.1.6	Software Integration Process.....	64
7.1.7	Software Qualification Testing Process.....	65
7.2	Software Support Processes.....	66
7.2.1	Software Documentation Management Process.....	66
7.2.2	Software Configuration Management Process.....	68
7.2.3	Software Quality Assurance Process.....	69
7.2.4	Software Verification Process.....	71
7.2.5	Software Validation Process	73
7.2.6	Software Review Process	74
7.2.7	Software Audit Process	76
7.2.8	Software Problem Resolution Process	77
7.3	Software Reuse Processes.....	78
7.3.1	Domain Engineering Process.....	78
7.3.2	Reuse Asset Management Process.....	80
7.3.3	Reuse Program Management Process.....	82
Annex A	(normative) Tailoring Process	85
A.1	Introduction.....	85
A.2	Tailoring Process	85
A.2.1	Purpose of the Tailoring Process	85
A.2.2	Tailoring Process outcomes	85
A.2.3	Tailoring Process activities	85
Annex B	(normative) Process Reference Model (PRM) for Assessment Purposes.....	87
B.1	Introduction.....	87
B.2	Conformance with ISO/IEC 15504-2.....	87
B.2.1	General	87
B.2.2	Requirements for Process Reference Models.....	87
B.2.3	Process descriptions	88
B.3	Process Reference Model.....	90
B.3.1	Acquisition Process Lower-Level Processes.....	91
B.3.2	Supply Process Lower-Level Processes	93
B.3.3	Life Cycle Model Management Process Lower-Level Processes.....	94
B.3.4	Human Resource Management Process Lower-Level Processes.....	96
B.3.5	Software Operation Process Lower-Level Processes	97
Annex C	(informative) History and rationale	99
C.1	Introduction.....	99
C.2	History	99
C.3	Goals.....	99
C.4	Process constructs and their usage	100
C.5	Relations among version of standards	101
Annex D	(informative) ISO/IEC 12207 and ISO/IEC 15288 process alignment.....	105
Annex E	(informative) Process views	107
E.1	Introduction.....	107
E.2	Definition	107

E.3	The process view concept	107
E.3.1	Process viewpoint	107
E.4	Process view for usability	108
Annex F	(informative) Some example process descriptions	110
F.1	Organizational Alignment Process	110
F.1.1	Purpose	110
F.1.2	Outcomes	110
F.2	Organization Management Process	110
F.2.1	Purpose	110
F.2.2	Outcomes	110
F.3	Contract Change Management Process	111
F.3.1	Purpose	111
F.3.2	Outcomes	111
F.3.3	Activities and tasks	111
Annex G	(informative) Relationship to other IEEE standards	113
Annex H	(informative) Bibliography	120
Annex I	(informative) List of participants	122

Withdrawn

Systems and software engineering — Software life cycle processes

1 Overview

1.1 Scope

This International Standard establishes a common framework for software life cycle processes, with well-defined terminology, that can be referenced by the software industry. It contains processes, activities, and tasks that are to be applied during the acquisition of a software product or service and during the supply, development, operation, maintenance and disposal of software products. Software includes the software portion of firmware.

This International Standard applies to the acquisition of systems and software products and services, to the supply, development, operation, maintenance, and disposal of software products and the software portion of a system, whether performed internally or externally to an organization. Those aspects of system definition needed to provide the context for software products and services are included.

This International Standard also provides a process that can be employed for defining, controlling, and improving software life cycle processes.

The processes, activities and tasks of this International Standard—either alone or in conjunction with ISO/IEC 15288—may also be applied during the acquisition of a system that contains software.

1.2 Purpose

The purpose of this International Standard is to provide a defined set of processes to facilitate communication among acquirers, suppliers and other stakeholders in the life cycle of a software product.

This International Standard is written for acquirers of systems and software products and services and for suppliers, developers, operators, maintainers, managers, quality assurance managers, and users of software products.

This International Standard is intended for use in a two-party situation and may be equally applied where the two parties are from the same organization. The situation may range from an informal agreement up to a legally binding contract. The International Standard may be used by a single party through a self-imposed set of processes. This clause does not prevent the use of ISO/IEC 12207 by suppliers or developers of off-the-shelf software.

1.3 Limitations

This International Standard does not detail the life cycle processes in terms of methods or procedures required to meet the requirements and outcomes of a process.

This International Standard does not detail documentation in terms of name, format, explicit content and recording media. The International Standard may require development of documents of similar class or type; various plans are an example. The International Standard, however, does not imply that such documents be developed or packaged separately or combined in some fashion. These decisions are left to the user of the International Standard.

NOTE ISO/IEC 15289 addresses the content for life cycle process information items (documentation).

This International Standard does not prescribe a specific system or software life cycle model, development methodology, method, model or technique. The parties of the International Standard are responsible for

selecting a life cycle model for the software project and mapping the processes, activities, and tasks in this International Standard onto that model. The parties are also responsible for selecting and applying the software development methods and for performing the activities and tasks suitable for the software project.

This International Standard is not intended to be in conflict with any organization's policies, procedures, and standards or with any national laws and regulations. Any such conflict should be resolved before using this International Standard.

2 Conformance

2.1 Intended usage

The requirements in this International Standard are contained in Clauses 6 and 7 and Annex A. This International Standard provides requirements for a number of processes suitable for usage during the life cycle of a software product or service. It is recognized that particular projects or organizations may not need to use all of the processes provided by this International Standard. Therefore, implementation of this International Standard typically involves selecting a set of processes suitable to the organization or project. There are two ways that an implementation can be claimed to conform with the provisions of this International Standard. Any claim of conformance is cited in only one of the two forms below.

2.2 Full conformance

A claim of full conformance declares the set of processes for which conformance is claimed. Full conformance is achieved by demonstrating that all of the requirements of the declared set of processes have been satisfied using the outcomes as evidence.

2.3 Tailored conformance

When this International Standard is used as a basis for establishing a set of processes that do not qualify for full conformance, the clauses of this International Standard are selected or modified in accordance with the tailoring process prescribed in Annex A. The tailored text, for which tailored conformance is claimed, is declared. Tailored conformance is achieved by demonstrating that requirements for the processes, as tailored, have been satisfied using the outcomes as evidence.

NOTE 1 When this International Standard is used to help develop an agreement between an acquirer and a supplier, clauses of this International Standard can be selected for incorporation in the agreement with or without modification. In this case, it is more appropriate for the acquirer and supplier to claim compliance with the agreement than conformance with this International Standard.

NOTE 2 Any organization (for example, national, industrial association, company) imposing this International Standard, as a condition of trade, should specify and make public the minimum set of required processes, activities, and tasks, which constitute suppliers' conformance with this International Standard.

NOTE 3 Requirements of this International Standard are marked by the use of the verb "shall." Recommendations are marked by the use of the verb "should". Permissions are marked by the use of the verb "may".

3 Normative references

No normative references are given in this document.