



**ISO/IEC/IEEE
24748-10**

**Systems and software
engineering — Life cycle
management —**

**Part 10:
Guidelines for systems engineering
agility**

*Ingénierie des systèmes et du logiciel — Gestion du cycle de vie —
Partie 10: Lignes directrices relatives à l'agilité de l'ingénierie des
systèmes*

**First edition
2026-02**



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2026

© IEEE 2026

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO or IEEE at the respective address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Institute of Electrical and Electronics Engineers, Inc
3 Park Avenue, New York
NY 10016-5997, USA

Email: stds.ipr@ieee.org
Website: www.ieee.org

Published in Switzerland

This is a preview of ISO/IEC/IEEE 24748-10:2026. [Click here to purchase the full version from the ANSI store.](#)

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms, definitions and abbreviated terms	1
3.1 Terms and definitions	1
3.2 Abbreviated terms	3
4 Concepts	3
4.1 General.....	3
4.2 Context.....	3
4.3 Common misunderstandings about agile.....	5
5 Strategic aspects and guidelines for SE agility	7
5.1 General.....	7
5.2 Adaptable modular architecture.....	7
5.3 Iterative incremental development.....	7
5.4 Attentive situational awareness.....	8
5.5 Attentive decision making.....	8
5.6 Common-mission teaming.....	9
5.7 Shared-knowledge management.....	9
5.8 Continual integration and test.....	9
5.9 Being agile	10
Annex A (informative) Case story example	11
Annex B (informative) Industrial DevOps	15
Bibliography	18
IEEE notices and abstract	20

This is a preview of ISO/IEC/IEEE 24748-10:2026. [Click here to purchase the full version from the ANSI store.](#)

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 or www.iec.ch/members_experts/refdocs).

IEEE Standards documents are developed within IEEE Societies and subcommittees of IEEE Standards Association (IEEE SA) Board of Governors. IEEE develops its standards through an accredited consensus development process, which brings together volunteers representing varied viewpoints and interests to achieve the final product. IEEE standards are documents developed by volunteers with scientific, academic, and industry-based expertise in technical working groups. Volunteers are not necessarily members of IEEE or IEEE SA and participate without compensation from IEEE. While IEEE administers the process and establishes rules to promote fairness in the consensus development process, IEEE does not independently evaluate, test, or verify the accuracy of any of the information or the soundness of any judgments contained in its standards.

ISO and IEC draw attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO and IEC take no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO and IEC had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents and <https://patents.iec.ch>. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

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. In the IEC, see www.iec.ch/understanding-standards.

This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 7, *Software and systems engineering*, in cooperation with the Systems and Software Engineering Standards Committee of the IEEE Computer Society, under the Partner Standards Development Organization cooperation agreement between ISO and IEEE.

A list of all parts in the ISO/IEC/IEEE 24748 series can be found on the ISO and IEC websites.

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 and www.iec.ch/national-committees.

This is a preview of ISO/IEC/IEEE 24748-10:2026. [Click here to purchase the full version from the ANSI store.](#)

Systems engineering agility is a strategy-based method for designing, building, sustaining, and evolving purpose-fulfilling creations when knowledge is uncertain and operational environments are dynamic. Strategies are abstractions for what needs to be accomplished and why, without constraints or directions on how to achieve them. Thus, systems engineering agility is a what, not a how; a strategic intent, not a tactical method. That is, agility provides strategic direction rather than prescribing detailed methods. There are many different methods that can be adopted, adapted, or crafted to suit project contexts and organizational cultures, but all share the same goals and strategies.

This document specifies strategic aspects supporting systems engineering agility. It includes guidelines for the application of the strategic aspects as well as relevant examples. Individually and collectively, the aspects can improve capability to deal with uncertain knowledge and dynamic environments. These strategic aspects can complement life cycle models such as those described in ISO/IEC/IEEE 24748-1 and ISO/IEC/IEEE 15288, enhancing responsiveness without prescribing specific process sequences.