

This is a preview of "DS/ISO/IEC/IEEE 2474...". Click here to purchase the full version from the ANSI store.

System- og softwareudvikling – Livscyklusledelse – Del 7: Anvendelse af systemudvikling i forsvarsprogrammer

Systems and software engineering – Life cycle management –
Part 7: Application of systems engineering on defense programs

DANSK STANDARD
Danish Standards Association

Göteborg Plads 1
DK-2150 Nordhavn

Tel: +45 39 96 61 01

Tel: +45 39 96 61 01

dansk.standard@ds.dk

www.ds.dk

This is a preview of "DS/ISO/IEC/IEEE 2474...". [Click here to purchase the full version from the ANSI store.](#)

DS projekt: M326897

ICS: 35.080

Første del af denne publikations betegnelse er:

DS/ISO/IEC, hvilket betyder, at det er en international standard, der har status som dansk standard.

Denne publikations overensstemmelse er:

IDT med: ISO/IEC/IEEE 24748-7:2019

DS-publikationen er på engelsk.

DS-publikationstyper

Dansk Standard udgiver forskellige publikationstyper.

Typen på denne publikation fremgår af forsiden.

Der kan være tale om:

Dansk standard

- standard, der er udarbejdet på nationalt niveau, eller som er baseret på et andet lands nationale standard, eller
- standard, der er udarbejdet på internationalt og/eller europæisk niveau, og som har fået status som dansk standard

DS-information

- publikation, der er udarbejdet på nationalt niveau, og som ikke har opnået status som standard, eller
- publikation, der er udarbejdet på internationalt og/eller europæisk niveau, og som ikke har fået status som standard, fx en teknisk rapport, eller
- europæisk præstandard

DS-håndbog

- samling af standarder, eventuelt suppleret med informativt materiale

DS-hæfte

- publikation med informativt materiale

Til disse publikationstyper kan endvidere udgives

- tillæg og rettelsesblade

DS-publikationsform

Publikationstyperne udgives i forskellig form som henholdsvis

- fuldtekstpublikation (publikationen er trykt i sin helhed)
- godkendelsesblad (publikationen leveres i kopi med et trykt DS-omslag)
- elektronisk (publikationen leveres på et elektronisk medie)

DS-betegnelse

Alle DS-publikationers betegnelse begynder med DS efterfulgt af et eller flere præfikser og et nr., fx **DS 383**, **DS/EN 5414** osv. Hvis der efter nr. er angivet et **A** eller **Cor**, betyder det, enten at det er et **tillæg** eller et **rettelsesblad** til hovedstandard, eller at det er indført i hovedstandard.

DS-betegnelse angives på forsiden.

Overensstemmelse med anden publikation:

Overensstemmelse kan enten være IDT, EQV, NEQ eller MOD

- **IDT:** Når publikationen er identisk med en given publikation.
- **EQV:** Når publikationen teknisk er i overensstemmelse med en given publikation, men præsentationen er ændret.
- **NEQ:** Når publikationen teknisk eller præsentationsmæssigt ikke er i overensstemmelse med en given standard, men udarbejdet på baggrund af denne.
- **MOD:** Når publikationen er modificeret i forhold til en given publikation.

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

**Part 7:
Application of systems engineering on
defense programs**

Ingénierie des systèmes et du logiciel — Gestion du cycle de vie —

*Partie 7: Application de l'ingénierie des systèmes aux programmes
de défense*



This is a preview of "DS/ISO/IEC/IEEE 2474...". Click here to purchase the full version from the ANSI store.



COPYRIGHT PROTECTED DOCUMENT

© IEEE 2015

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
Fax: +41 22 749 09 47
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 "DS/ISO/IEC/IEEE 2474...". Click here to purchase the full version from the ANSI store.

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 ISO documents should be noted (see www.iso.org/directives).

IEEE Standards documents are developed within the IEEE Societies and the Standards Coordinating Committees of the IEEE Standards Association (IEEE-SA) Standards Board. The IEEE develops its standards through a consensus development process, approved by the American National Standards Institute, which brings together volunteers representing varied viewpoints and interests to achieve the final product. Volunteers are not necessarily members of the Institute and serve without compensation. While the IEEE administers the process and establishes rules to promote fairness in the consensus development process, the IEEE does not independently evaluate, test, or verify the accuracy of any of the information contained in its standards.

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 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.

ISO/IEC/IEEE 24748-7 was prepared by the Software & Systems Engineering Standards Committee of the IEEE Computer Society (as IEEE Std 15288.1) and drafted in accordance with its editorial rules. It was adopted, under the "fast-track procedure" defined in the Partner Standards Development Organization cooperation agreement between ISO and IEEE, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 7, *Software and systems engineering*.

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.

This is a preview of "DS/ISO/IEC/IEEE 2474...". [Click here to purchase the full version from the ANSI store.](#)

This is a preview of "DS/ISO/IEC/IEEE 2474...". [Click here to purchase the full version from the ANSI store.](#)

IEEE Standard for Application of Systems Engineering on Defense Programs

Sponsor

Software & Systems Engineering Standards Committee
of the
IEEE Computer Society

Approved 10 December 2014

IEEE-SA Standards Board

This is a preview of "DS/ISO/IEC/IEEE 2474...". Click here to purchase the full version from the ANSI store.

Abstract: The requirements for the application of ISO/IEC/IEEE 15288, System Life Cycle Processes for defense systems engineering needs are provided in this standard. This standard implements ISO/IEC/IEEE 15288 for use by United States Department of Defense (DoD) organizations and other defense agencies in acquiring systems or systems engineering support. While primarily supporting the acquirer-supplier agreement mode, this standard also can be used to support the other modes: use by organizations, projects, and process assessors. This standard provides the basis for selection, negotiation, agreement, and performance of necessary systems engineering activities and delivery of products, while allowing flexibility for both innovative implementation and tailoring of the specific systems engineering process(es) to be used by system suppliers, either contractors or government system developers, integrators, maintainers, or sustainers.

Keywords: 15288, acquisition, agreement processes, allocated baseline, attributes, defense program, Department of Defense, functional baseline, IEEE 15288.1™, information management, life cycle processes, organizational project-enabling processes, outputs, process activities, process outcomes, process tasks, product baseline, project assessment, system life cycle, systems engineering, technical management processes, technical processes

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

Copyright © 2015 by The Institute of Electrical and Electronics Engineers, Inc.
All rights reserved. Published 15 May 2015. Printed in the United States of America.

IEEE is a registered trademark in the U.S. Patent & Trademark Office, owned by The Institute of Electrical and Electronics Engineers, Incorporated.

PDF: ISBN 978-0-7381-9533-9 STD20105
Print: ISBN 978-0-7381-9534-6 STDPD20105

IEEE prohibits discrimination, harassment, and bullying.

For more information, visit <http://www.ieee.org/web/aboutus/whatis/policies/p9-26.html>.

No part of this publication may be reproduced in any form, in an electronic retrieval system or otherwise, without the prior written permission of the publisher.

This is a preview of "DS/ISO/IEC/IEEE 2474...". [Click here to purchase the full version from the ANSI store.](#)

Important Notices and Disclaimers Concerning IEEE Standards Documents

IEEE documents are made available for use subject to important notices and legal disclaimers. These notices and disclaimers, or a reference to this page, appear in all standards and may be found under the heading "Important Notice" or "Important Notices and Disclaimers Concerning IEEE Standards Documents."

Notice and Disclaimer of Liability Concerning the Use of IEEE Standards Documents

IEEE Standards documents (standards, recommended practices, and guides), both full-use and trial-use, are developed within IEEE Societies and the Standards Coordinating Committees of the IEEE Standards Association ("IEEE-SA") Standards Board. IEEE ("the Institute") develops its standards through a consensus development process, approved by the American National Standards Institute ("ANSI"), which brings together volunteers representing varied viewpoints and interests to achieve the final product. Volunteers are not necessarily members of the Institute 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.

IEEE does not warrant or represent the accuracy or content of the material contained in its standards, and expressly disclaims all warranties (express, implied and statutory) not included in this or any other document relating to the standard, including, but not limited to, the warranties of: merchantability; fitness for a particular purpose; non-infringement; and quality, accuracy, effectiveness, currency, or completeness of material. In addition, IEEE disclaims any and all conditions relating to: results; and workmanlike effort. IEEE standards documents are supplied "AS IS" and "WITH ALL FAULTS."

Use of an IEEE standard is wholly voluntary. The existence of an IEEE standard does not imply that there are no other ways to produce, test, measure, purchase, market, or provide other goods and services related to the scope of the IEEE standard. Furthermore, the viewpoint expressed at the time a standard is approved and issued is subject to change brought about through developments in the state of the art and comments received from users of the standard.

In publishing and making its standards available, IEEE is not suggesting or rendering professional or other services for, or on behalf of, any person or entity nor is IEEE undertaking to perform any duty owed by any other person or entity to another. Any person utilizing any IEEE Standards document, should rely upon his or her own independent judgment in the exercise of reasonable care in any given circumstances or, as appropriate, seek the advice of a competent professional in determining the appropriateness of a given IEEE standard.

IN NO EVENT SHALL IEEE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO: PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE PUBLICATION, USE OF, OR RELIANCE UPON ANY STANDARD, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE AND REGARDLESS OF WHETHER SUCH DAMAGE WAS FORESEEABLE.

Translations

The IEEE consensus development process involves the review of documents in English only. In the event that an IEEE standard is translated, only the English version published by IEEE should be considered the approved IEEE standard.

This is a preview of "DS/ISO/IEC/IEEE 2474...". [Click here to purchase the full version from the ANSI store.](#)

Official statements

A statement, written or oral, that is not processed in accordance with the IEEE-SA Standards Board Operations Manual shall not be considered or inferred to be the official position of IEEE or any of its committees and shall not be considered to be, or be relied upon as, a formal position of IEEE. At lectures, symposia, seminars, or educational courses, an individual presenting information on IEEE standards shall make it clear that his or her views should be considered the personal views of that individual rather than the formal position of IEEE.

Comments on standards

Comments for revision of IEEE Standards documents are welcome from any interested party, regardless of membership affiliation with IEEE. However, IEEE does not provide consulting information or advice pertaining to IEEE Standards documents. Suggestions for changes in documents should be in the form of a proposed change of text, together with appropriate supporting comments. Since IEEE standards represent a consensus of concerned interests, it is important that any responses to comments and questions also receive the concurrence of a balance of interests. For this reason, IEEE and the members of its societies and Standards Coordinating Committees are not able to provide an instant response to comments or questions except in those cases where the matter has previously been addressed. For the same reason, IEEE does not respond to interpretation requests. Any person who would like to participate in revisions to an IEEE standard is welcome to join the relevant IEEE working group.

Comments on standards should be submitted to the following address:

Secretary, IEEE-SA Standards Board
445 Hoes Lane
Piscataway, NJ 08854 USA

Laws and regulations

Users of IEEE Standards documents should consult all applicable laws and regulations. Compliance with the provisions of any IEEE Standards document does not imply compliance to any applicable regulatory requirements. Implementers of the standard are responsible for observing or referring to the applicable regulatory requirements. IEEE does not, by the publication of its standards, intend to urge action that is not in compliance with applicable laws, and these documents may not be construed as doing so.

Copyrights

IEEE draft and approved standards are copyrighted by IEEE under U.S. and international copyright laws. They are made available by IEEE and are adopted for a wide variety of both public and private uses. These include both use, by reference, in laws and regulations, and use in private self-regulation, standardization, and the promotion of engineering practices and methods. By making these documents available for use and adoption by public authorities and private users, IEEE does not waive any rights in copyright to the documents.

Photocopies

Subject to payment of the appropriate fee, IEEE will grant users a limited, non-exclusive license to photocopy portions of any individual standard for company or organizational internal use or individual, non-commercial use only. To arrange for payment of licensing fees, please contact Copyright Clearance Center, Customer Service, 222 Rosewood Drive, Danvers, MA 01923 USA; +1 978 750 8400. Permission to photocopy portions of any individual standard for educational classroom use can also be obtained through the Copyright Clearance Center.

This is a preview of "DS/ISO/IEC/IEEE 2474...". Click here to purchase the full version from the ANSI store.

Updating of IEEE Standards documents

Users of IEEE Standards documents should be aware that these documents may be superseded at any time by the issuance of new editions or may be amended from time to time through the issuance of amendments, corrigenda, or errata. An official IEEE document at any point in time consists of the current edition of the document together with any amendments, corrigenda, or errata then in effect.

Every IEEE standard is subjected to review at least every ten years. When a document is more than ten years old and has not undergone a revision process, it is reasonable to conclude that its contents, although still of some value, do not wholly reflect the present state of the art. Users are cautioned to check to determine that they have the latest edition of any IEEE standard.

In order to determine whether a given document is the current edition and whether it has been amended through the issuance of amendments, corrigenda, or errata, visit the IEEE-SA Website at <http://ieeexplore.ieee.org/xpl/standards.jsp> or contact IEEE at the address listed previously. For more information about the IEEE-SA or IEEE's standards development process, visit the IEEE-SA Website at <http://standards.ieee.org>.

Errata

Errata, if any, for all IEEE standards can be accessed on the IEEE-SA Website at the following URL: <http://standards.ieee.org/findstds/errata/index.html>. Users are encouraged to check this URL for errata periodically.

Patents

Attention is called to the possibility that implementation of this standard may require use of subject matter covered by patent rights. By publication of this standard, no position is taken by the IEEE with respect to the existence or validity of any patent rights in connection therewith. If a patent holder or patent applicant has filed a statement of assurance via an Accepted Letter of Assurance, then the statement is listed on the IEEE-SA Website at <http://standards.ieee.org/about/sasb/patcom/patents.html>. Letters of Assurance may indicate whether the Submitter is willing or unwilling to grant licenses under patent rights without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination to applicants desiring to obtain such licenses.

Essential Patent Claims may exist for which a Letter of Assurance has not been received. The IEEE is not responsible for identifying Essential Patent Claims for which a license may be required, for conducting inquiries into the legal validity or scope of Patent Claims, or determining whether any licensing terms or conditions provided in connection with submission of a Letter of Assurance, if any, or in any licensing agreements are reasonable or non-discriminatory. Users of this standard are expressly advised that determination of the validity of any patent rights, and the risk of infringement of such rights, is entirely their own responsibility. Further information may be obtained from the IEEE Standards Association.

This is a preview of "DS/ISO/IEC/IEEE 2474...". Click here to purchase the full version from the ANSI store.

Participants

At the time this IEEE standard was completed, the DoD Systems Engineering Standardization Working Group had the following membership:

Garry Roedler, *Chair*
David Davis, *Vice Chair*

William Bearden
 Dave Berwald
 Tom Channell
 Daniel Christensen
 Stephen Christensen
 Penelope Cloft
 Luke Daniels
 Mike Davis

Geoff Draper
 John Evers
 Ronald Fradenburg
 Theresa Hunt
 Cheryl Jones
 Steve Jones
 Ed Matheson

Revis Napier
 Larry Pennell
 Chris Ptachik
 Bob Scheurer
 John Schnackenberg
 Brian Shaw
 Zachary Taylor
 Gan Wang

The following members of the individual balloting committee voted on this standard. Balloters may have voted for approval, disapproval, or abstention.

William Bearden
 Bill Brown
 Susan Burgess
 William Byrd
 Tom Channell
 Daniel Christensen
 Stephen Christensen
 Luke Daniels
 David Davis
 Robert Epps
 Alan Fitzmorris
 Ronald Fradenburg
 Randall Groves
 Denise Haskins
 Mark Henley
 Theresa Hunt
 Noriyuki Ikeuchi

Hannibal Iyob
 Cheryl Jones
 Piotr Karocki
 Yuri Khersonsky
 Dewitt Latimer
 Edward McCall
 James Moore
 Edward Moshinsky
 Revis Napier
 Larry Pennell
 Chris Ptachik
 Annette Reilly
 William Riski
 Garry Roedler
 Bartien Sayogo
 Bob Scheurer

John Schnackenberg
 Brian Shaw
 Carl Singer
 John Snoderly
 Eugene Stoudenmire
 Walter Struppler
 Marcy Stutzman
 Michael Swearingen
 Zachary Taylor
 David Walden
 Gan Wang
 Nancy Weaver
 Clifford Whitcomb
 Michael Yokell
 Matthew Young
 Kenneth Zemrowski
 Daidi Zhong

This is a preview of "DS/ISO/IEC/IEEE 2474...". [Click here to purchase the full version from the ANSI store.](#)

When the IEEE-SA Standards Board approved this standard on 10 December 2014, it had the following membership:

John Kulick, *Chair*
Jon Walter Rosdahl, *Vice Chair*
Richard H. Hulett, *Past Chair*
Konstantinos Karachalios, *Secretary*

Peter Balma
 Farooq Bari
 Ted Burse
 Clint Chaplain
 Stephen Dukes
 Jean-Phillippe Faure
 Gary Hoffman

Michael Janezic
 Jeffrey Katz
 Joseph L. Koepfinger*
 David J. Law
 Hung Ling
 Oleg Logvinov
 T. W. Olsen
 Glenn Parsons

Ron Peterson
 Adrian Stephens
 Peter Sutherland
 Yatin Trivedi
 Phil Winston
 Don Wright
 Yu Yuan

*Member Emeritus

Also included are the following nonvoting IEEE-SA Standards Board liaisons:

Richard DeBlasio, *DOE Representative*
 Michael Janezic, *NIST Representative*

Catherine Berger
IEEE-SA Content Production and Management

Malia Zaman
IEEE-SA Technical Program Operations

This is a preview of "DS/ISO/IEC/IEEE 2474...". [Click here to purchase the full version from the ANSI store.](#)

Introduction

This introduction is not part of IEEE Std 15288.1-2014, IEEE Standard for Application of Systems Engineering on Defense Programs.

For effective and efficient application of ISO/IEC/IEEE 15288 on defense programs, additional application requirements are needed. ISO/IEC/IEEE 15288 is written in a general manner to address all types of systems and different modes of application. Thus, it does not have requirements specific to the use by defense projects that facilitate effective implementation of an acquirer-supplier agreement, such as use in defense contracts.

This standard implements ISO/IEC/IEEE 15288 for application on defense programs, providing the defense-specific language and terminology to help ensure the correct application of acquirer-supplier requirements for a defense program. This standard includes the expected/required outputs and associated attributes.

This is a preview of "DS/ISO/IEC/IEEE 2474...". Click here to purchase the full version from the ANSI store.

Contents

1. Overview	1
1.1 Scope	1
1.2 Purpose	1
1.3 Conformance	2
2. Normative references.....	2
3. Definitions, acronyms, and abbreviations	3
3.1 Definitions	3
3.2 Acronyms and abbreviations	4
4. This clause is a placeholder to align clauses with ISO/IEC/IEEE 15288.....	5
5. Key concepts and application of this international standard	5
5.1 Introduction	5
5.2 System concepts	5
5.3 Organization and project concepts.....	5
5.4 Life cycle concepts	6
5.5 Process concepts.....	6
5.6 Processes in this standard	6
5.7 Process application	7
5.8 Process reference model	8
6. System life cycle processes	8
6.1 Agreement processes	8
6.2 Organizational Project-Enabling processes	10
6.3 Technical Management processes	14
6.4 Technical processes	24
Annex A (normative) Tailoring process	44
Annex B (informative) Example process information items	45
Annex C (informative) Process reference model for assessment purposes	46
Annex D (informative) Process integration and process constructs	47
Annex E (informative) Process views	48
Annex F (informative) Architecture modeling	49
Annex G (informative) Application of system life cycle process to a system of systems	50
Annex H (informative) Bibliography	51

This is a preview of "DS/ISO/IEC/IEEE 2474...". [Click here to purchase the full version from the ANSI store.](#)

This is a preview of "DS/ISO/IEC/IEEE 2474...". Click here to purchase the full version from the ANSI store.

IEEE Standard for Application of Systems Engineering on Defense Programs

IMPORTANT NOTICE: IEEE Standards documents are not intended to ensure safety, security, health, or environmental protection, or ensure against interference with or from other devices or networks. Implementers of IEEE Standards documents are responsible for determining and complying with all appropriate safety, security, environmental, health, and interference protection practices and all applicable laws and regulations.

This IEEE document is made available for use subject to important notices and legal disclaimers. These notices and disclaimers appear in all publications containing this document and may be found under the heading "Important Notice" or "Important Notices and Disclaimers Concerning IEEE Documents." They can also be obtained on request from IEEE or viewed at <http://standards.ieee.org/IPR/disclaimers.html>.

1. Overview

1.1 Scope

This standard establishes the requirements for systems engineering activities to be performed on projects of the United States (US) Department of Defense (DoD) and other defense agencies across the entire system life cycle, including the planning, acquisition, modification, and sustainment of defense systems. It provides the foundation for systems engineering within the context of ISO/IEC/IEEE 15288¹ and the acquisition environment of DoD and other defense agencies at all levels of system hierarchy. This standard provides detailed requirements for the application of the life cycle processes, activities, and tasks of ISO/IEC/IEEE 15288 for use on any defense system and includes the effective integration of agreement processes, technical processes, technical management processes, and essential specialty engineering requirements.

1.2 Purpose

This standard provides requirements for the application of ISO/IEC/IEEE 15288 for defense systems engineering needs. This standard implements ISO/IEC/IEEE 15288 for use by DoD organizations and other defense agencies in acquiring systems or systems engineering support. While primarily supporting the

¹Information on normative references can be found in Clause 2.

This is a preview of "DS/ISO/IEC/IEEE 2474...". [Click here to purchase the full version from the ANSI store.](#)

acquirer-supplier agreement mode, this standard also can be used to support the other modes: use by organizations, projects, and process assessors. This standard provides the basis for selection, negotiation, agreement, and performance of necessary systems engineering activities and delivery of products, while allowing flexibility for both innovative implementation and tailoring of the specific systems engineering process(es) to be used by system suppliers, either contractors or government system developers, integrators, maintainers, or sustainers.

1.3 Conformance

1.3.1 Intended usage

ISO/IEC/IEEE 15288:2015 2.1 “Intended usage” shall apply.

1.3.2 Full conformance

1.3.2.1 Full conformance to outcomes

ISO/IEC/IEEE 15288:2015 2.2.1 “Full conformance to outcomes” shall apply.

1.3.2.2 Full conformance to tasks

ISO/IEC/IEEE 15288:2015 2.2.2 “Full conformance to tasks” shall apply.

1.3.3 Tailored conformance

ISO/IEC/IEEE 15288:2015 2.3 “Tailored conformance” shall apply with the following additions:

The agreement between the acquirer and supplier shall include the systems engineering requirements based on the tailoring (or other adaptation) of the requirements of this standard to address the program situation.

The assessment of the supplier is based on the compliance to the agreement. The agreement shall include the means by which compliance will be determined (which may include accomplishment of outcomes, completion of tasks, or delivery of outputs).

NOTE—The acquirer request for proposal may include the intended tailoring (or other adaptation) of the systems engineering requirements from this standard. The supplier may propose changes or alternatives during the steps to finalize the agreement.

2. Normative references

The following referenced documents are indispensable for the application of this document (i.e., they must be understood and used, so each referenced document is cited in text and its relationship to this document is explained). For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments or corrigenda) applies.

This is a preview of "DS/ISO/IEC/IEEE 2474...". Click here to purchase the full version from the ANSI store.

IEEE Std 15288.2™-2014, IEEE Standard for Technical Reviews and Audits on Defense Programs.²

ISO/IEC/IEEE 15288:2015(E), Systems and software engineering—System life cycle processes.³

SAE/EIA-649-1 (2014), Configuration Management Requirements for Defense Contracts.⁴

²IEEE publications are available from The Institute of Electrical and Electronics Engineers, 445 Hoes Lane, Piscataway, NJ 08854, USA (<http://standards.ieee.org>).

³ISO/IEC publications are available from the ISO Central Secretariat, 1, ch. de la Voie-Creuse, CP 56, CH-1211 Geneva 20, Switzerland (<http://www.iso.org>). ISO/IEC publications are available in the United States from the American National Standards Institute, 25 West 43rd Street, 4th Floor, New York, NY 10036, USA (<http://www.ansi.org>).

⁴SAE publications are available from the Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA 15096, USA (<http://www.sae.org>).