

P24748-2

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Type of Project: Revision to IEEE Standard 24748-2-2012

PAR Request Date: 12-Oct-2016

PAR Approval Date: 07-Dec-2016

PAR Expiration Date: 31-Dec-2020

Status: PAR for a Revision to an existing IEEE Standard

Root Project: 24748-2-2012

1.1 Project Number: P24748-2

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Systems and Software Engineering-- Life Cycle Management-- Part 2: Guidelines for the Application of ISO/IEC/IEEE 15288 (System Life Cycle Processes) (P24748-2)

Changes in title: ~~IEEE Guide—Adoption of ISO/IEC TR 24748-2:2011~~ Systems and Software Engineering-- Life Cycle Management-- Part 2: ~~Guide~~**Guidelines** ~~to~~**for** the Application of ISO/IEC/IEEE 15288 (System Life Cycle Processes) (P24748-2)

3.1 Working Group: Working Group for Life Cycle Processes (C/S2ESC/WG_LCP)

Contact Information for Working Group Chair

Name: Teresa Doran

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Computer Society/Software & Systems Engineering Standards Committee (C/S2ESC)

Contact Information for Sponsor Chair

Name: Paul Croll

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Contact Information for Standards Representative

None

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 02/2017

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 02/2020

5.1 Approximate number of people expected to be actively involved in the development of this project: 10

5.2 Scope: This part of ISO/IEC/IEEE 24748 is a guideline for the application of ISO/IEC/IEEE 15288:2015. It addresses system, life cycle, process, organizational, project, and adaptation concepts, principally through reference to ISO/IEC/IEEE 24748-1 and ISO/IEC/IEEE 15288:2015. It then gives guidance on applying ISO/IEC/IEEE 15288:2015 from the aspects of strategy, planning, application in organizations, and application on projects. It also provides comparison of the differences between ISO/IEC/IEEE 15288:2015 and the prior versions, ISO/IEC 15288: 2002 and ISO/IEC/IEEE 15288:2008.

This part of ISO/IEC 24748 is intentionally aligned with both ISO/IEC 24748-1 and ISO/IEC 24748-3 (Guidelines for the application of ISO/IEC/IEEE 12207).

Changes in scope: This part of ISO/IEC/IEEE ~~TR~~ 24748 is a ~~guide~~**guideline** for the application of ISO/IEC/IEEE 15288:~~2008~~**2015**. It addresses system, life cycle, process, organizational, project, and adaptation concepts, principally through reference to ISO/IEC/IEEE ~~TR~~ 24748-1 and ISO/IEC/IEEE 15288:~~2008~~**2015**. It then gives guidance on applying ISO/IEC/IEEE 15288:~~2008~~**2015** from the aspects of strategy, planning, application in organizations, and application on projects. **It also provides comparison of the differences between ISO/IEC/IEEE 15288:2015 and the prior versions, ISO/IEC 15288: 2002 and ISO/IEC/IEEE 15288:2008.** This part of ISO/IEC ~~TR~~ 24748 is intentionally aligned with both ISO/IEC ~~TR~~ 24748-1 and ISO/IEC ~~TR~~ 24748-3 (~~Guide~~**Guidelines** ~~to~~**for** the application of ISO/IEC/IEEE 12207)~~in its terminology, structure and content.~~

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: This document will not include a purpose clause.

Changes in purpose: [The ISO/IEC format does not provide for a statement of purpose.]

5.5 Need for the Project: So that IEEE users of ISO/IEC/IEEE 15288 will have access to the same guidance as other users.

5.6 Stakeholders for the Standard: Any organization implementing repeatable systems engineering processes.

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: Yes

Organization: ISO/IEC JTC1

Technical Committee Name: Software and systems engineering

Technical Committee Number: SC7

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8.1 Additional Explanatory Notes: This guideline is being revised to reflect changes in the key standard on which it is based (ISO/IEC/IEEE 15288, Systems and software engineering -- System life cycle processes). ISO/IEC/IEEE 15288 completed a major revision in 2015 as the next step in the harmonization between ISO/IEC/15288 and ISO/IEC/IEEE 12207 (Software life cycle processes).

7.2: This project is a joint development under the Partner Standards Development Organization (PSDO) agreement between the IEEE and ISO/IEC JTC 1. IEEE previously adopted the original version of ISO/IEC 24748-2, which is now being revised by ISO/IEC JTC 1/SC7/WG7. An initial revision draft has already been prepared by the ISO working group in consultation with members of the IEEE working group. Hence, the standard is expected to be ready for ballot shortly after PAR approval.

2.1 The title is being changed (to reflect ISO/IEC/IEEE), since it is no longer an IEEE adoption, but a joint development. Also, it is no longer a Technical Report, but an International Standard.

Regarding standards referenced in 24748-2 --

There are 11 standards referenced in the ISO/IEC 24748-2 CD.2 bibliography. These include:

[1] IEC 61160:2005, Design Review

[2] IEEE Std 1028-2008, IEEE Standard for Software Reviews and Audits

[3] IEEE Std 1044-2009, IEEE Standard Classification for Software Anomalies

[4] IEEE Std 1320.1-1998, IEEE Standard for Functional Modelling Language -- Syntax and Semantics for IDEF0

[5] IEEE Std 15288.1, Application of Systems Engineering on Defense Programs

[6] IEEE Std 15288.2, Application of Technical Reviews and Audits on Defense Programs

[7] ISO/IEC/IEEE 12207:2008, Systems and software engineering -- Software life cycle processes

[8] ISO/IEC/IEEE 15288:2015, Systems and software engineering -- System life cycle processes

[9] ISO/TR 18529:2000, Ergonomics -- Ergonomics of human-system interaction -- Human-centred lifecycle process descriptions

[10] ISO/IEC 42010:2011, Systems and software engineering -- Architecture description

[11] ISO 9000:2015, Quality management systems -- Fundamentals and vocabulary