P15026-4

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Type of Project: Revision to IEEE Standard 15026-4-2013
PAR Request Date: 13-Oct-2017
PAR Approval Date: 06-Dec-2017
PAR Expiration Date: 31-Dec-2021
Status: PAR for a Revision to an existing IEEE Standard
Root Project: 15026-4-2013

1.1 Project Number: P15026-4
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Systems and Software Engineering -- Systems and Software Assurance -- Part 4: Assurance in the Life Cycle


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
Email Address: pcroll@computer.org
Phone: 540-644-6224

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: 03/2018
4.3 Projected Completion Date for Submittal to RevCom
Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 05/2021

5.1 Approximate number of people expected to be actively involved in the development of this project: 20
5.2 Scope: This part of ISO/IEC 15026 gives guidance and recommendations for conducting selected processes, activities and tasks for systems and software products requiring assurance claims for properties selected for special attention, called critical properties. This part of ISO/IEC 15026 specifies a property-independent list of processes, activities and tasks to achieve the claim and show the achievement of the claim. This part of ISO/IEC 15026 establishes the processes, activities, tasks, guidance and recommendations in the context of a defined life cycle model and set of life cycle processes for system and/or software life cycle management.

NOTE The stakeholders determine which of the system or software properties are selected for special attention and require assurance claims. This part of ISO/IEC 15026 uses the term "critical" to distinguish those properties from other requirements.

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.
5.5 Need for the Project: This International Standard specifies
- ISO/IEC/IEEE 15288:2015 Systems and software engineering System life cycle processes and
- ISO/IEC/IEEE 12207:201x Systems and software engineering Software life cycle processes
as Normative references.

Because of the revision of ISO/IEC/IEEE 15288 in 2015, and ongoing revision project of ISO/IEC/IEEE 12207, this International Standard must be revised in order to keep the consistency with the latest International Standard system.
More specifically, this International Standard gives System assurance process view on top of ISO/IEC/IEEE 15288 and Software assurance process view on top of ISO/IEC/IEEE 12207 and contains a number of citations from these life cycle process standards. So the revision of the latter enforces the revision of this International Standard.

Feedback from use that improves this document, if any, will be reflected in the revised version.

This document and the whole 15026 series are important to the high integrity systems community and are also being applied for data-centric systems, cybersecurity and other situations where assurance of quality or attributes of an IT system is required. Reference to the latest versions of 15288 and 12207 sustains the integrity of the SC7 set of standards.

5.6 Stakeholders for the Standard: Software engineers, systems engineers, and the organizations that employ them or buy products created by them.

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
    Contact Name: Annette Reilly
    Phone: 703-525-4075
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8.1 Additional Explanatory Notes: 2.1 The title is being changed (to reflect ISO/IEC/IEEE), since it is no longer an IEEE adoption, but a joint development.

4.2 The initial revision draft is currently being balloted in SC7; the standard is expected to be ready for IEEE ballot within a few months after PAR approval.

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 15026-4, but for this revision will engage in joint development with ISO/IEC JTC 1/SC7/WG7.

8.1 Reason for Revision: See item 5.5 which is an extract from the SC7 NWIP 'Purpose and justification for the proposal' section.