

P42010

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Type of Project: Modify Existing Approved PAR

PAR Request Date: 08-Aug-2011

PAR Approval Date: 09-Nov-2011

PAR Expiration Date: 31-Dec-2011

Status: Modification to a Previously Approved PAR for the Revision of a Standard

Root PAR: P42010 **Approved on:** 27-Sep-2007

Project Record: P42010

Root Project: 1471-2000

1.1 Project Number: P42010

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Systems and software engineering --- Architecture description

Changes in title: Standard for Systems and Software Engineering --- Architectural Description
software
engineering
Architecture
description

3.1 Working Group: Architectural Description Working Group (C/S2ESC/42010_WG)

Contact Information for Working Group Chair

Name: Richard Hilliard

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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@csc.com

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: 01/2011

4.3 Projected Completion Date for Submittal to RevCom: 10/2011

5.1 Approximate number of people expected to be actively involved in the development of this project: 15

5.2 Scope: This International Standard specifies the manner in which architecture descriptions of systems are organized and expressed.

This International Standard specifies architecture viewpoints, architecture frameworks and architecture description languages for use in architecture descriptions.

This International Standard also provides motivations for terms and concepts used; presents guidance on specifying architecture viewpoints; and demonstrates the use of this International Standard with other standards.

Changes in scope: This scope of Standard specifies the manner in which architecture system descriptions and software systems development are organized and expressed. This includes International Standard descriptions that architecture are viewpoints, used architecture for frameworks the and following: a) description Expression languages for the use system in or architecture software descriptions. This and International its Standard evolution also b) provides Communication motivations among for the terms stakeholders c) Evaluation and comparison concepts of used; architectures presents in guidance a on consistent specifying manner architecture d) viewpoints; Planning, managing, and executing demonstrates the activities use of development this e) International Expression Standard of the persistent characteristics and supporting principles of a system or software to guide acceptable change f) Verification of an implementation's compliance with another architectural standards. description g) Recording contributions to the body of knowledge of systems and software architecture

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 purpose of this standard is to facilitate the expression, communication and review of architectures and thereby lay a foundation for quality and cost gains through standardization of elements of and practices for architectural description.

5.5 Need for the Project: IEEE 1471 is being jointly revised with ISO/IEC JTC1/SC 7 as ISO/IEC 42010.

5.6 Stakeholders for the Standard: Systems and software architects, acquirers, developers and operators.

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 (Item Number and Explanation): This project is a joint revision of IEEE Std 1471 with ISO/IEC JTC 1/SC 7. The current IEEE 1471 was adopted by JTC 1 as ISO/IEC 42010 as the result of a fast-track ballot. The change in number (from 1471 to 42010) permits ISO/IEC and IEEE to reduce confusion by using the same number. The title change is by agreement between IEEE and ISO SC 7 to align with its other joint standards in the area of Systems and Software Engineering.

NOTES: Initial sponsor ballot was March 2009. This date cannot be entered in the pull-down menu for 4.2, so earliest possible date was selected.

This revision to PAR updates the Title of the Standard, and the Scope.