

# P29148

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**Type of Project:** Modify Existing Approved PAR

**PAR Request Date:** 21-Jul-2011

**PAR Approval Date:** 10-Sep-2011

**PAR Expiration Date:** 31-Dec-2014

**Status:** Modification to a Previously Approved PAR

**Root PAR:** P29148 **Approved on:** 05-Feb-2010

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**1.1 Project Number:** P29148

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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**2.1 Title:** Standard for Systems and Software -- Life Cycle Processes -- Requirements Engineering

**Changes in title:** Standard for Systems and Software Engineering -- Life Cycle Processes -- Requirements Engineering

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**3.1 Working Group:** Working Group for Life Cycle Processes (C/S2ESC/WG\_LCP)

**Contact Information for Working Group Chair**

**Name:** James Moore

**Email Address:** [james.w.moore@ieee.org](mailto:james.w.moore@ieee.org)

**Phone:** 703.983.7396

**Contact Information for Working Group Vice-Chair**

None

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**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](mailto:pcroll@csc.com)

**Phone:** 540-644-6224

**Contact Information for Standards Representative**

None

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**4.1 Type of Ballot:** Individual

**4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot:** 03/2010

**4.3 Projected Completion Date for Submittal to RevCom:** 08/2011

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

**5.2 Scope:** This International Standard

- specifies the required processes that are to be implemented for the engineering of requirements for systems and software products (including services) throughout the life cycle,
- gives guidelines for applying the requirements and requirements-related processes described in ISO/IEC 12207:2008 (IEEE Std 12207-2008) and ISO/IEC 15288:2008 (IEEE Std 15288-2008),
- specifies the required information items that are to be produced through the implementation of the requirements processes,
- specifies the required contents of the required information items, and gives guidelines for the format of the required and related information items. This International Standard is applicable to
- those who use or plan to use ISO/IEC 15288 and ISO/IEC 12207 on projects dealing with man-made systems, software-intensive systems, software and hardware products, and services related to those systems and products, regardless of project scope, product(s), methodology, size or complexity,
- anyone performing requirements engineering activities to aid in ensuring that their application of the requirements engineering processes conforms to ISO/IEC 15288:2008 (IEEE

**Changes in scope:** ~~1 Scope 1.1 Purpose~~ This International Standard

~~provides~~ specifies the normative required processes that are to be implemented for the engineering of requirements for systems and exemplary software guidance products (including implementing services) throughout the life cycle,

- gives guidelines for applying the requirements and requirements-related processes described in ISO/IEC 12207:2008 (IEEE Std 12207-2008) and ISO/IEC 15288:2008 (IEEE Std 15288-2008),
- and specifies the normative required specification information items that are to be produced through the implementation of the requirements processes,
- specifies the required contents of the required information items, produced and through gives guidelines for the implementation format of these the processes required 1.2 and Field related of information application items. This International Standard is applicable to
- those who use or plan to use ISO/IEC 15288 and ISO/IEC 12207 on projects dealing with man-made systems, software-intensive systems, software and hardware products, and services related to those systems and products, regardless of project scope, product(s), methodology, size or complexity,
- anyone performing requirements engineering activities to aid in ensuring that

Std 15288-2008) and/or ISO/IEC 12207:2008 (IEEE Std 12207-2008),  
- those who use or plan to use ISO/IEC/IEEE 15289:2011 on projects dealing with man-made systems, software-intensive systems, software and hardware products, and services related to those systems and products, regardless of project scope, product(s), methodology, size or complexity, and  
- anyone performing requirements engineering activities to aid in ensuring that the information items developed during the application of requirements engineering processes conform to ISO/IEC/IEEE 15289:2011.

their application of the requirements engineering processes conforms to ISO/IEC 15288:2008 (IEEE Std 15288-2008) and/or ISO/IEC 12207:2008, (IEEE Std 12207-2008),  
- those who use or plan to use ISO/IEC/IEEE 15289:xxxx2011 on projects dealing with man-made systems, software-intensive software-intensive systems, software and hardware products, and services related to those systems and products, regardless of project scope, product(s), methodology, size or complexity, and - anyone performing requirements engineering activities to aid in ensuring that the information items developed during the application of requirements engineering processes, conforms conform to ISO/IEC/IEEE 15289:xxxx2011.

**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:** ISO/IEC standards do not have a distinct purpose statement.

**5.5 Need for the Project:** To provide an update to the currency of the practices currently provided by IEEE standards 830, 1233, and 1362 -- all of which will be replaced by this standard.

**5.6 Stakeholders for the Standard:** Anyone developing a major software system

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## 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

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**7.1 Are there other standards or projects with a similar scope?:** Yes

**If Yes please explain:** Yes, this standard will replace IEEE standards 830, 1233 and 1362, all of which have become somewhat dated and which are inconsistent with the relevant ISO/IEC standards.

**and answer the following**

**Sponsor Organization:** CS/S2ESC

**Project/Standard Number:** 830, 1233, 1362

**Project/Standard Date:**

**Project/Standard Title:** IEEE Std 830-1998, IEEE recommended practice for software requirements specifications IEEE Std 1233-1998, IEEE guide for developing system requirements specifications IEEE Std 1362-1998, IEEE guide for information technology - system definition - Concept of Operations (ConOps) document

## 7.2 Joint Development

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

**Organization:** ISO/IEC JTC 1

**Technical Committee Name:** Software and systems engineering

**Technical Committee Number:** SC 7

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**8.1 Additional Explanatory Notes (Item Number and Explanation):** This project will supersede and replace the following standards: IEEE 830, IEEE 1233, IEEE 1362.

The titles of the standards mentioned in 5.2 are: ISO/IEC/IEEE 12207-2008, Systems and software engineering -- Software life cycle processes

ISO/IEC/IEEE 15288-2008, Systems and software engineering -- System life cycle processes

ISO/IEC/IEEE 15289-2011, Systems and software engineering -- Content of life-cycle information products (documentation)