

# IEEE Standard for Technical Reviews and Audits on Defense Programs

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# IEEE Standard for Technical Reviews and Audits on Defense Programs

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**Software & Systems Engineering Standards Committee**  
of the  
**IEEE Computer Society**

Approved 10 December 2014

**IEEE-SA Standards Board**

**Abstract:** The requirements for technical reviews and audits to be performed throughout the acquisition life cycle for the US Department of Defense (DoD) and other defense agencies are established in this standard. This standard provides the definition, description, and intent, as well as the entry/exit/success criteria, for each technical review and audit. It is to be used to establish agreement between acquirers and suppliers on the technical reviews and audits that are needed for the project, as well as the focus and expectations of each.

**Keywords:** 15288, acquirer-supplier agreement, alternative systems review, critical design review, defense acquisition program, defense acquisition program life cycle, flight readiness review, functional configuration audit, IEEE 15288.2™, integration readiness review, physical configuration audit, preliminary design review, production readiness review, software requirements and architecture review, software specification review, system functional review, system requirements review, system verification review, technical audit, technical review, test readiness review

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The Institute of Electrical and Electronics Engineers, Inc.  
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PDF: ISBN 978-0-7381-9535-3      STD20106  
Print: ISBN 978-0-7381-9536-0      STDPD20106

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## Introduction

This introduction is not part of IEEE Std 15288.2-2014, IEEE Standard for Technical Reviews and Audits on Defense Programs.

For effective and efficient application of ISO/IEC/IEEE 15288 on defense programs, additional requirements are needed for the assessment of those programs. 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 DoD contracts. This standard responds to the needs of DoD and other defense agencies to have more specific and detailed requirements for technical reviews and audits as part of the assessment of projects during the life cycle.

The requirements and guidance in this standard have been written at the most general level possible so that they might meet not only DoD's needs but also those of other defense agencies, either by direct application or by tailoring for an agency's specific needs.

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## 1. Overview

### 1.1 Scope

This standard establishes the requirements for technical reviews and audits to be performed throughout the acquisition life cycle for the US Department of Defense (DoD) and other defense agencies. This standard provides the definition, description, and intent, as well as the entry, exit and success criteria, for each technical review and audit. It is to be used to establish agreement between acquirers and suppliers on the technical reviews and audits that are needed for the project, as well as the focus and expectations of each technical review and audit.

### 1.2 Purpose

This standard is intended to elaborate the technical review and audit clause of ISO/IEC/IEEE 15288, System life-cycle processes, for use by the DoD and other defense agencies in acquiring systems (and parts thereof) or services. It amplifies ISO/IEC/IEEE 15288, subclause 6.3.2.3.a, for selection, negotiation, agreement, and performance of the necessary technical reviews and audits, while allowing tailoring flexibility for the variety of acquisition situations/environments when the technical reviews or audits are conducted. While primarily supporting the acquirer-supplier agreement mode, this standard also can be used to support the other modes such as use by organizations, projects, and process assessors.