

# 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**  
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**IEEE Computer Society**

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**IEEE-SA Standards Board**

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**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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## 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.

This standard was developed with input from government and non-government resources. This standard does not supersede or supplant any other law, regulation, directive, contractual provision, or requirement. Accordingly, users of this standard must verify, conform and complete the technical review and audit of any governmental programs to meet the requirements specified by the government at the time of the technical review and audit. The user is instructed to consult the governmental contact or commissioning party for specific instructions and requirements, which may be different from this standard. Users may also have to comply with other applicable laws, regulations, and agency requirements in the undertaking and completion of any such technical reviews and audits, including but not limited to confidentiality, security clearance, access to protected areas, and document management. It is the user's responsibility to determine all applicable laws and requirements.

# Contents

1. Overview .....	1
1.1 Scope .....	1
1.2 Purpose .....	1
1.3 Field of application.....	2
1.4 Organization of this standard.....	2
1.5 Conformance .....	3
2. Normative references.....	4
3. Definitions, acronyms, and abbreviations .....	4
3.1 Definitions .....	4
3.2 Acronyms and abbreviations .....	5
4. Overview of technical reviews and audits .....	9
4.1 Technical reviews and audits defined.....	9
4.2 The role of technical reviews and audits in the US DoD acquisition life cycle.....	9
4.3 Technical reviews and audits in the context of Technical Management processes .....	9
4.4 Key participants for technical reviews and audits .....	10
4.5 Program considerations for technical reviews and audits.....	11
4.6 Media selection for products discussed in this standard .....	17
5. Requirements for technical reviews and audits .....	17
5.1 General .....	17
5.2 Alternative systems review (ASR) .....	19
5.3 System requirements review (SRR).....	21
5.4 System functional review (SFR).....	24
5.5 Preliminary design review (PDR).....	26
5.6 Critical design review (CDR) .....	29
5.7 Test readiness review (TRR) .....	32
5.8 Functional configuration audit (FCA) .....	34
5.9 System verification review (SVR).....	36
5.10 Production readiness review (PRR).....	38
5.11 Physical configuration audit (PCA).....	40
6. Detailed criteria to be addressed for each technical review and audit.....	43
6.1 General .....	43
6.2 Alternative systems review (ASR) detailed criteria.....	43
6.3 System requirements review (SRR) detailed criteria.....	48
6.4 System functional review (SFR) detailed criteria.....	55
6.5 Preliminary design review (PDR) detailed criteria .....	60
6.6 Critical design review (CDR) detailed criteria .....	69
6.7 Test readiness review (TRR) detailed criteria .....	77
6.8 Functional configuration audit (FCA) detailed criteria.....	83
6.9 System verification review (SVR) detailed criteria .....	87
6.10 Production readiness review (PRR) detailed criteria .....	92
6.11 Physical configuration audit (PCA) detailed criteria .....	98
7. Technical review and audit application guidance for defense programs .....	103
7.1 General .....	103
7.2 Alternative systems review (ASR) application guidance.....	103
7.3 System requirements review (SRR) application guidance.....	104

7.4 System functional review (SFR) application guidance .....	105
7.5 Preliminary design review (PDR) application guidance .....	105
7.6 Critical design review (CDR) application guidance .....	106
7.7 Test readiness review (TRR) application guidance .....	107
7.8 Functional configuration audit (FCA) application guidance .....	110
7.9 System verification review (SVR) application guidance .....	111
7.10 Production readiness review (PRR) application guidance .....	112
7.11 Physical configuration audit (PCA) application guidance .....	113
Annex A (informative) Software requirements and architecture review (SAR).....	115
A.1 General.....	115
A.2 Annex A purpose .....	115
A.3 Annex A tailoring .....	115
A.4 Application of Annex A content .....	115
A.5 Requirements for a SAR .....	115
A.6 SAR detailed criteria.....	118
A.7 SAR application guidance .....	124
Annex B (informative) Software specification review (SSR) .....	126
B.1 General.....	126
B.2 Annex B purpose.....	126
B.3 Annex B tailoring.....	126
B.4 Application of Annex B content .....	126
B.5 Requirements for an SSR.....	126
B.6 SSR detailed criteria .....	129
B.7 SSR application guidance .....	134
Annex C (informative) Integration readiness review (IRR) .....	135
C.1 General.....	135
C.2 Annex C purpose.....	135
C.3 Annex C tailoring.....	135
C.4 Application of Annex C content .....	135
C.5 Requirements for an IRR .....	135
C.6 IRR detailed criteria.....	138
C.7 IRR application guidance.....	143
Annex D (informative) Flight readiness review (FRR).....	145
D.1 General.....	145
D.2 Annex D purpose .....	145
D.3 Annex D tailoring .....	145
D.4 Application of annex D content .....	145
D.5 Requirements for an FRR .....	145
D.6 FRR detailed criteria.....	148
D.7 FRR application guidance.....	152
Annex E (informative) Bibliography.....	154

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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.