ISO/IEC 15408-5:2022-08 (E)

Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Part 5: Pre-defined packages of security requirements

Contents

Page

Foreword v

Introduction vii

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Evaluation assurance levels 2
4.1 Family name 2
4.2 Evaluation assurance level overview 2
4.2.1 General 2
4.2.2 Relationship between assurances and assurance levels 2
4.3 Evaluation assurance level objectives 4
4.4 Evaluation assurance levels 5
4.4.1 General 5
4.4.2 Evaluation assurance level 1 (EAL1) -- Functionally tested 5
4.4.3 Evaluation assurance level 2 (EAL2) -- Structurally tested 6
4.4.4 Evaluation assurance level 3 (EAL3) -- Methodically tested and checked 7
4.4.5 Evaluation assurance level 4 (EAL4) -- Methodically designed, tested and reviewed 9
4.4.6 Evaluation assurance level 5 (EAL5) -- Semi-formally verified designed and tested 10
4.4.7 Evaluation assurance level 6 (EAL6) -- Semi-formally verified design and tested 11
4.4.8 Evaluation assurance level 7 (EAL7) -- Formally verified design and tested 13

5 Composed assurance packages (CAPs) 14
5.1 Family name 14
5.2 Composed assurance package (CAP) overview 15
5.2.1 General 15
5.2.2 Relationship between assurances and assurance packages 15
5.3 Composed assurance package (CAP) objectives 16
5.4 Packages in the CAP family 18
5.4.1 Composition assurance package A -- Structurally composed 18
5.4.2 Composition assurance package B -- Methodically composed 19
5.4.3 Composition assurance package C -- Methodically composed, tested and reviewed 20

6 Composite product package 21
6.1 Package name 21
6.2 Package type 21
6.3 Package overview 21
6.4 Objectives 22
6.5 Security assurance components 22

7 Protection profile assurances 22
7.1 Family name 22
7.2 PPA family overview 22
7.3 PPA family objectives 23
7.4 PPA packages 23
7.4.1 Protection profile assurance package -- Direct rationale PP 23
7.4.2 Protection profile assurance package -- Standard 24

8 Security target assurances 24
8.1 Family name 24
8.2 STA family overview 25
8.3 STA family objectives 25
8.4 STA packages 25
8.4.1 Security target assurance package -- Direct rationale 25
8.4.2 Security target assurance package -- Standard 26