

ISO/IEC 25023:2016-06 (E)

Systems and software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - Measurement of system and software product quality

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Conformance	2
3	Normative references	2
4	Terms and definitions	2
5	Abbreviated terms	4
6	Use of system and software product quality measures	4
6.1	System/software product quality measurement concepts	4
6.2	Approach to quality measurement	5
7	Format used for documenting the quality measures	7
8	System and software product quality measures	7
8.1	General	7
8.2	Functional suitability measures	8
8.2.1	Functional completeness measures	8
8.2.2	Functional correctness measures	8
8.2.3	Functional appropriateness measures	9
8.3	Performance efficiency measures	9
8.3.1	Time behaviour measures	10
8.3.2	Resource utilization measures	11
8.3.3	Capacity measures	12
8.4	Compatibility measures	13
8.4.1	Co-existence measures	13
8.4.2	Interoperability measures	13
8.5	Usability measures	14
8.5.1	Appropriateness recognizability measures	14
8.5.2	Learnability measures	15
8.5.3	Operability measures	16
8.5.4	User error protection measures	18
8.5.5	User interface aesthetics measures	18
8.5.6	Accessibility measures	19
8.6	Reliability measures	19
8.6.1	Maturity measures	20
8.6.2	Availability measures	20
8.6.3	Fault tolerance measures	21
8.6.4	Recoverability measures	22
8.7	Security measures	22
8.7.1	Confidentiality measures	22
8.7.2	Integrity measures	23
8.7.3	Non-repudiation measures	24
8.7.4	Accountability measures	24
8.7.5	Authenticity measures	24

8.8	Maintainability measures	25
8.8.1	Modularity measures	25
8.8.2	Reusability measures	25
8.8.3	Analysability measures	26
8.8.4	Modifiability measures	27
8.8.5	Testability measures	27
8.9	Portability measures	28
8.9.1	Adaptability measures	28
8.9.2	Installability measures	29
8.9.3	Replaceability measures	30
Annex A (informative) Considerations for the use of quality measures		31
Annex B (informative) QMEs used to define product or system quality measures		36
Annex C (informative) Detailed explanation of measurement types		39
Bibliography		45