

ISO/IEC TS 25052-2:2024-12 (E)

Systems and software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE): cloud services - Part 2: Quality measurement

Contents

Page

- Foreword..... v
- Introduction..... vi
- 1 Scope..... 1
- 2 Normative references..... 1
- 3 Terms and definitions..... 1
- 4 Format used for documenting the quality measures..... 2
- 5 Cloud service quality measures..... 2
 - 5.1 Overview..... 2
 - 5.2 Service performance efficiency measures..... 3
 - 5.2.1 General..... 3
 - 5.2.2 Time behaviour measures..... 3
 - 5.2.3 Aggregated resource utilization measures..... 3
 - 5.2.4 Capacity measures..... 3
 - 5.2.5 Scalability measures..... 4
 - 5.2.6 Elasticity measures..... 4
 - 5.3 Service compatibility measures..... 5
 - 5.3.1 General..... 5
 - 5.3.2 Cloud interoperability measures..... 5
 - 5.4 Service usability measures..... 5
 - 5.4.1 General..... 5
 - 5.4.2 Accessibility measures..... 6
 - 5.5 Service reliability measures..... 6
 - 5.5.1 General..... 6
 - 5.5.2 Availability measures..... 6
 - 5.5.3 Resilience measures..... 6
 - 5.5.4 Recoverability measures..... 7
 - 5.6 Service security measures..... 7
 - 5.6.1 General..... 7
 - 5.6.2 Confidentiality measures..... 7
 - 5.6.3 Accountability measures..... 8
 - 5.6.4 Isolation measures..... 8
 - 5.6.5 PII protection conformance measures..... 9
 - 5.6.6 Security responsibility measures..... 9
 - 5.6.7 Asset protection measures..... 9
 - 5.7 Service maintainability measures..... 10
 - 5.7.1 General..... 10
 - 5.7.2 Maintenance compliance and versioning measures..... 10
 - 5.7.3 Reversibility measures..... 10
 - 5.7.4 Monitorability measures..... 11
 - 5.8 Portability measures..... 11
 - 5.8.1 General..... 11
 - 5.8.2 Cloud data portability measures..... 11
 - 5.8.3 Cloud application portability measures..... 12
 - 5.9 Service provisionability measures..... 13
 - 5.9.1 General..... 13
 - 5.9.2 Service measurability measures..... 13
 - 5.9.3 Auditability measures..... 14
 - 5.9.4 Governability measures..... 14

5.9.5	Self-provisioning measures	15
5.9.6	SLA (service level agreement) information completeness measures	15
5.9.7	SLA (service level agreement) satisfaction measures.....	15
5.10	Service responsiveness measures.....	16
5.10.1	General	16
5.10.2	Service supportiveness measures	16
5.10.3	Reactivity measures	16
5.10.4	Continuity measures.....	16
Bibliography.....		18