ISO/IEC 25020:2019 (E)

Systems and software engineering — Systems and software Quality Requirements and Evaluation (SQuaRE) — Quality measurement framework

Contents

Foreword

Introduction

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Abbreviated terms
- 5 Conformance
- 6 Quality measurement
 - 6.1 Quality measurement reference model
 - 6.2 Different QMs and their relationships
 - 6.3 Selecting QMs
 - 6.4 Constructing QMs
 - 6.4.1 Identify QMs needed to be constructed
 - 6.4.2 Description of the QM
 - 6.4.3 Definitions of the QMEs
 - 6.5 Plan and perform measurement
 - 6.6 Application of the measurement results

Annex A (informative) Considerations for selecting QMs and QMEs

- A.1 Criteria for selecting QMs and QMEs
- A.2 Issues affecting the reliability of measurement and the validity of QMs
- A.2.1 Issues affecting the reliability of measurement
- A.2.2 Issues affecting the validity of QMs
- Annex B (informative) Assessing the reliability of measurement and the validity of QMs
 - B.1 Assessing the validity of QMs
 - B.1.1 General
 - B.1.2 Content validity
 - B.1.3 Construct validity
 - B.1.4 Correlation
 - B.1.5 Order preserving relationship over time
 - B.1.6 Order preserving relationship across products
 - B.1.7 Predictive validity
 - B.1.8 Discrimination
 - B.2 Assessing the reliability of measurement
- Annex C (informative) Elements for documenting QMs
- Annex D (informative) Normalized measurement function for QMs
- Annex E (informative) Measurement information model in ISO/IEC/IEEE 15939

Page count: 27