ISO/IEC/IEEE 32430:2021-10 (E)

Software engineering - Trial use standard for software non-functional sizing measurements

Contents

1. Overview 10
   1.1 Scope 10
   1.2 Purpose 10
   1.3 Word usage 11

2. Normative references 11

3. Definitions, acronyms, and abbreviations 12
   3.1 Definitions 12
   3.2 Abbreviations 16

4. Introductory Information 17
   4.1 Non-Functional Software Size Measurement (NFSSM) introduction 17
   4.2 Software-intensive system and software product 18
   4.3 Software domains 18
   4.4 The relations between non-functional requirements (NFR) definition and functional user requirements (FUR) 18
   4.5 Key features of the NFSSM 20
   4.6 Future evolution of NFR 21
   4.7 Objectives and benefits 22

5. Non-functional size: Categories and sub-categories 23
   5.1 Category 1: Data operations 23
   5.2 Category 2: Interface design 32
   5.3 Category 3: Technical environment 41
   5.4 Category 4: Architecture 47
   5.5 Sizing code data 52

6. The sizing process 55
   6.1 The timing of the non-functional sizing 56
   6.2 Non-functional sizing and FSM 56
   6.3 Steps to determine the non-functional size 57
   6.4 Calculating the Non-functional size 63

7. Complementarity of the functional and the non-functional sizes 66
   7.1 Requirements involving functional and non-functional requirements 67

8. Use of non-functional software sizing 77
   8.1 Functional size and non-functional size 77
   8.2 Project management 77
   8.3 Performance management 81

Annex A (informative) NFSSM strengths 84

Annex B (informative) Bibliography 85