ISO/IEC 19795-6:2012-02 (E)

Information technology - Biometric performance testing and reporting - Part 6: Testing methodologies for operational evaluation

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Conformance 1

3 Normative references 1

4 Terms and definitions 2

5 Operational evaluation overview 3
5.1 Operational evaluation goals 3
5.2 Operational performance metrics 4
5.3 Operational evaluation methods 4
5.4 Determining operational performance 4
5.5 Use of technology and scenario evaluation methodologies in evaluating operational systems 5

6 Operational evaluation 5
6.1 Purpose and scope 5
6.1.1 General 5
6.1.2 Criteria for system inclusion 5
6.1.3 System specification 5
6.1.4 Biometric functionality 6
6.1.5 Performance measures 6
6.2 Application characteristics 6
6.2.1 General 6
6.2.2 Concept of operations 7
6.2.3 Guidance and instruction 7
6.2.4 Levels of effort and decision policies 8
6.2.5 Multiple-instance systems 8
6.2.6 Environment 9
6.2.7 Deployment factors 9
6.2.8 Acclimatization 10
6.2.9 Habituation 10
6.3 Test Plan 10
6.3.1 General 10
6.3.2 System implementation and configuration 11
6.3.3 Test population 11
6.3.4 Test transactions 12
6.4 Performance measurement 14
6.4.1 Throughput 14
6.4.2 Enrolment analysis 15
6.4.3 Recognition analysis 15
6.5 Reporting 16
6.5.1 Reporting planned test results 16
6.5.2 Reporting additional analyses 16
6.5.3 Reporting observations 17
6.5.4 Report structure 17

6.6 Record keeping 17

Annex A (informative) Non-mandatory performance metrics and reporting 18

Annex B (informative) Sub-transaction events in operational testing 20

Annex C (informative) Sample operational test specification 21

Annex D (informative) Methods to determine test size 23

Annex E (informative) Operational system monitoring 25

Annex F (informative) Operational habituation testing 27

Annex G (informative) Sample operational test report outline 28

Bibliography 30