ISO/IEC 30106-1:2016-03 (E)

Information technology - Object oriented BioAPI - Part 1: Architecture

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Symbols and abbreviated terms 1

5 Object Oriented BioAPI architecture 2
5.1 Summary of BioAPI architecture 2
5.2 BioAPI compatibility requirements 4
5.3 Graphical User Interface (GUI) 4
5.4 Implementation guidelines 6
5.4.1 Basic concepts 6
5.4.2 BioAPI_Unit development 6
5.4.3 BFP development 6
5.4.4 BSP development 7
5.4.5 Framework and component registry 8
5.4.6 Application development 8

6 BioAPI CBEFF Patron Formats 8
6.1 General 8
6.2 Simple BIR 8
6.3 Complex BIR 14
6.3.1 Structure 14
6.3.2 Child BIR 14
6.3.3 Parent BIR 14

7 Constants 17
7.1 General 17
7.2 Biometric types 17
7.3 Biometric subtypes 17
7.4 Error codes 18

8 OO BioAPI UML structure 21
8.1 General 21
8.2 Relationships among data structures 22
8.2.1 Class BIR 22
8.2.2 Class UnitSchema 23
8.2.3 Class BFPSchema 24
8.2.4 Class BSPSchema 24
8.2.5 Class FrameworkSchema 25
8.3 BioAPI_Unit structures 25
8.3.1 IArchive 25
8.3.2 IComparison 26
8.3.3 IProcessing 26
8.3.4 ISensor 27
8.4 BFP Structure 27

8.5 BSP Structure 28
8.6 Framework structure 28
8.7 Application related structure 29