

ISO/IEEE 11073-10206:2024-07 (E)

Health informatics - Device interoperability - Part 10206: Personal health device communication - Abstract content information model

Contents	Page
1. Overview.....	13
1.1 Scope.....	13
1.2 Purpose.....	13
1.3 Word usage.....	14
1.4 Context.....	14
2. Normative references.....	15
3. Definitions, acronyms, and abbreviations.....	16
3.1 Definitions.....	16
3.2 Acronyms and abbreviations.....	17
4. Guiding principles.....	18
5. Introduction to IEEE 11073 personal health device.....	18
5.1 Content information model.....	18
5.2 Compliance with other standards.....	19
5.3 Security.....	19
5.4 Background.....	19
6. Content information model concepts.....	21
6.1 Nomenclature usage.....	22
6.2 Data types.....	23
6.3 Time.....	26
7. ACOM class definitions.....	32
7.1 ACOM Base class.....	32
7.2 Conceptual model.....	33
7.3 ACOM PHD class.....	37
7.4 ACOM SystemInfo class.....	37
7.5 ACOM Clock class.....	38
7.6 ACOM TimeCounter class.....	39
7.7 ACOM WallClock class.....	40
7.8 ACOM Power class.....	40
7.9 ACOM Observation class.....	41
7.10 ACOM Numeric Observation class.....	44
7.11 Discrete Observation class.....	45
7.12 Single Event Observation class.....	46
7.13 Multiple Event observation class.....	46
7.14 Multiple Boolean State observation class.....	47
7.15 ACOM Sample Array Observation class.....	48
7.16 ACOM String Observation class.....	51
7.17 ACOM Compound observation class.....	52
8. ACOM device specializations.....	52
8.1 IEEE 11073-10408 thermometer.....	53
8.2 IEEE 11073-10407 blood pressure.....	55
8.3 IEEE 11073-10417 glucose meter.....	59
8.4 IEEE 11073-10404 pulse oximeter.....	65
8.5 IEEE 11073-10415 weight scale.....	68
8.6 IEEE 11073-10406 basic ECG or heart rate.....	71

9. Conformance	74
9.1 Protocol specification conformance	74
9.2 PHD conformance	75
9.3 PHG conformance	76
10. Model extensions	77
11. Protocol considerations	77
11.1 State consistency	77
11.2 Observation references	77
11.3 Timelines	78
11.4 Nomenclature	78
12. Binary presentation of ACOM	78
12.1 General mapping outline	79
12.2 Example system information presentation for a thermometer	79
13. Example JSON/FHIR presentation	81
Annex A (informative) Bibliography	87