DIN EN ISO/IEEE 11073-10206:2026-04 (E)

Health informatics - Device interoperability - Part 10206: Personal health device communication - Abstract content information model (ISO/IEEE 11073-10206:2024); English version EN ISO/IEEE 11073-10206:2026

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