

ISO/IEEE 11073-10471:2024-09 (E)

Health informatics - Device interoperability - Part 10471: Personal health device communication - Device specialization - Independent living activity hub

| Contents | Page |
|--|-------------|
| 1. Overview | 1 |
| 1.1 Scope | 1 |
| 1.2 Purpose | 1 |
| 1.3 Word usage | 1 |
| 1.4 Context | 1 |
| 2. Normative references | 2 |
| 3. Definitions, acronyms, and abbreviations | 2 |
| 3.1 Definitions | 2 |
| 3.2 Acronyms and abbreviations | 3 |
| 4. Introduction to ISO/IEEE 11073 personal health devices | 3 |
| 4.1 General | 3 |
| 4.2 Introduction to IEEE Std 11073-20601 modeling constructs | 4 |
| 4.3 Compliance with other standards | 4 |
| 5. Independent living activity hub device concepts and modalities | 5 |
| 5.1 General | 5 |
| 5.2 Concepts | 5 |
| 5.3 Collected data | 6 |
| 5.4 Reporting data from multiple persons | 11 |
| 6. Independent living activity hub domain information model | 12 |
| 6.1 Overview | 12 |
| 6.2 Class extensions | 12 |
| 6.3 Object instance diagram | 12 |
| 6.4 Types of configuration | 15 |
| 6.5 Medical device system object | 16 |
| 6.6 Numeric objects | 19 |
| 6.7 Real-time sample array objects | 33 |
| 6.8 Enumeration objects | 33 |
| 6.9 PM-store objects | 50 |
| 6.10 Scanner objects | 50 |
| 6.11 Class extension objects | 50 |
| 6.12 Independent living activity hub information model extensibility rules | 50 |
| 7. Independent living activity hub service model | 51 |
| 7.1 General | 51 |
| 7.2 Object access services | 51 |
| 7.3 Object access event report services | 52 |
| 8. Independent living activity hub communication model | 52 |
| 8.1 Overview | 52 |
| 8.2 Communication characteristics | 53 |

| | |
|--|-----|
| 8.3 Association procedure | 53 |
| 8.4 Configuring procedure..... | 55 |
| 8.5 Operating procedure | 55 |
| 8.6 Time synchronization | 56 |
| 9. Test associations | 56 |
| 9.1 Behavior with standard configuration..... | 56 |
| 9.2 Behavior with extended configurations | 56 |
| 10. Conformance | 57 |
| 10.1 Applicability | 57 |
| 10.2 Conformance specification | 57 |
| 10.3 Levels of conformance..... | 57 |
| 10.4 Implementation conformance statements (ICSs) | 58 |
| Annex A (informative) Bibliography | 62 |
| Annex B (normative) Any additional ASN.1 definitions | 63 |
| Annex C (normative) Allocation of identifiers | 66 |
| C.1 Systematic derivations of terms and codes for independent living monitoring measurements | 73 |
| Annex D | 100 |
| (informative) Message sequence examples | 100 |
| Annex E (informative) Protocol data unit examples..... | 102 |
| E.1 General | 102 |
| E.2 Association information exchange | 102 |
| E.3 Configuration information exchange—extended configuration | 104 |
| E.4 GET MDS attributes service | 106 |
| E.5 Data reporting..... | 107 |
| E.6 Disassociation..... | 108 |
| Annex F (informative) Revision History | 109 |