ISO/IEEE 11073-20101:2004-12 (ER)

Health informatics — Point-of-care medical device communication —
Part 20101: Application profiles — Base standard

Contents

1. Overview ... 1

1.1 Scope ... 2
1.2 Purpose ... 2
1.3 Goals ... 2
1.4 Audience ... 2

2. References ... 2

3. Definitions and abbreviations ... 4

3.1 Definitions ... 4
3.2 Acronyms and abbreviations ... 4

4. Conventions ... 6

5. Rationale ... 6

5.1 Communication model ... 6
5.2 Information model ... 7

6. Communication model ... 8

6.1 General ... 8
6.2 ACSE protocol ... 10
6.2.1 General ... 10
6.2.2 ACSE services ... 10
6.2.3 ACSE ASN.1 message definition ... 12
6.2.4 ACSE user information fields ... 12
6.3 Session-layer protocol ... 12
6.3.1 General ... 12
6.3.2 Session-layer services ... 12
6.3.3 Session-layer message definitions ... 13
6.4 Presentation-layer protocol ... 13
6.4.1 General ... 13
6.4.2 Presentation-layer services ... 14
6.4.3 Presentation-layer messages ... 14
6.5 ROSE protocol ... 14
6.5.1 General ... 14
6.5.2 ROSE services ... 14
6.5.3 ROSE message definitions ... 14
6.6 CMDISE protocol (CMDIP) ... 15
6.6.1 General ... 15
6.6.2 CMDISE services ... 15
6.6.3 CMDIP message definitions ... 15
6.6.4 SNTP ... 15

7. Information model ... 16

7.1 Object model ... 16
7.2 Format model ... 16

7.2.1 Syntax 16
7.2.2 Compatibility 16

8. Conformance 17

8.1 Scope 17
8.2 Object identifier administration 17
8.3 MDAP subset conformance 17
8.4 Implementation conformance 17

Annex A (normative) Medical device encoding rules (MDER) 18

Annex B (normative) Allocation of identifiers 29

Annex C (informative) Time synchronization 32

Annex D (informative) Dynamic model 33

Annex E (normative) Abstract syntax 38

Annex F (informative) PDU examples 59

Annex G (informative) Specialization of ASN.1 72

Annex H (informative) Compatibility cases 75

Annex I (informative) Bibliography 77