

INTERNATIONAL  
STANDARD

ISO/IEEE  
11073-  
10424

First edition  
2016-06-15

Corrigendum 1  
2018-01

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**Health informatics — Personal health  
device communication —**

Part 10424:

**Device specialization — Sleep apnoea  
breathing therapy equipment (SABTE)**

TECHNICAL CORRIGENDUM 1

*Informatique de la santé — Communication entre dispositifs de santé  
personnels —*

*Partie 10424: Spécialisation de dispositif — Équipement de thérapie  
respiratoire de l'apnée du sommeil (SABTE)*

RECTIFICATIF TECHNIQUE 1



**IEEE**

Reference number  
ISO/IEEE 11073-10424:2016/Cor 1:2018(E)

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Published in Switzerland

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Health informatics—Personal health device communication

# Part 10424: Device Specialization— Sleep Apnoea Breathing Therapy Equipment (SABTE)

## Corrigendum 1

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**Abstract:** Within the context of the ISO/IEEE 11073 family of standards for device communication, a normative definition of the communication between sleep apnoea breathing therapy equipment (SABTE) devices (agents) and managers (e.g., cell phones, personal computers, personal health appliances, set-top boxes), in a manner that enables plug-and-play interoperability, is established in IEEE Std 11073-10424-2014. It leverages appropriate portions of existing standards including ISO/IEEE 11073 terminology, information models, application profile standards, and transport standards. It specifies the use of specific term codes, formats, and behaviors in telehealth environments restricting optionality in base frameworks in favor of interoperability. IEEE Std 11073-10424-2014 defines a common core of communication functionality for SABTE. In this context, SABTE is defined as a device that is intended to alleviate the symptoms of a patient who suffers from sleep apnoea by delivering a therapeutic breathing pressure to the patient. SABTE is primarily used in the home health-care environment by a lay operator without direct professional supervision. This corrigendum corrects errors that have been identified in IEEE Std 11073-10424-2014 to make it easier to implement the standard in an interoperable fashion.

**Keywords:** IEEE 11073-10424™, medical device communication, personal health devices, SABTE, sleep apnoea breathing therapy equipment

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PDF: ISBN 978-1-5044-4053-0 STD22607

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## Introduction

|                                                                                                                                                                                            |
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| This introduction is not part of IEEE Std 11073-10424-2014/Cor 1-2017, IEEE Standard for Part 10424: Device Specialization—Sleep Apnoea Breathing Therapy Equipment (SABTE)—Corrigendum 1. |
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ISO/IEEE 11073 standards enable communication between medical devices and external computer systems. Within the context of the ISO/IEEE 11073 family of standards for device communication, IEEE Std 11073-10424-2014 establishes a normative definition of the communication between sleep apnoea breathing therapy equipment (SABTE) devices (agents) and managers (e.g., cell phones, personal computers, personal health appliances, set top boxes) in a manner that enables plug-and-play interoperability. It leverages appropriate portions of existing standards including ISO/IEEE 11073 terminology, information models, application profile standards, and transport standards. It specifies the use of specific term codes, formats, and behaviors in telehealth environments restricting optionality in base frameworks in favor of interoperability. IEEE Std 11073-10424-2014 defines a common core of communication functionality for SABTE. In this context, SABTE is defined as a device that is intended to alleviate the symptoms of a patient who suffers from sleep apnoea by delivering a therapeutic breathing pressure to the patient. SABTE is primarily used in the home health-care environment by a lay operator without direct professional supervision.

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Health informatics—Personal health device communication

# Part 10424: Device Specialization— Sleep Apnoea Breathing Therapy Equipment (SABTE)

## Corrigendum 1

NOTE—The editing instructions contained in this **corrigendum** define how to merge the material contained therein into the existing base standard and its amendments to form the comprehensive standard.

The editing instructions are shown in ***bold italic***. Four editing instructions are used: change, delete, insert, and replace. ***Change*** is used to make corrections in existing text or tables. The editing instruction specifies the location of the change and describes what is being changed by using ~~striking through~~ (to remove old material) and underscore (to add new material). ***Delete*** removes existing material. ***Insert*** adds new material without disturbing the existing material. Insertions may require renumbering. If so, renumbering instructions are given in the editing instruction. ***Replace*** is used to make changes in figures or equations by removing the existing figure or equation and replacing it with a new one. Editing instructions, change markings, and this NOTE will not be carried over into future editions because the changes will be incorporated into the base standard.

## 6. Sleep apnoea breathing therapy equipment domain information model

### 6.7 Numeric objects

#### 6.7.3 Apnoea hypopnoea index (AHI)

*Change the last word in the following sentence as shown:*

The Type attribute is used to distinguish the modality of particular AHI between total AHI (i.e., MDC\_SABTE\_AHI\_TOTAL), uAHI (i.e., MDC\_SABTE\_AHI\_UNCLASS), oAHI (i.e., MDC\_SABTE\_AHI\_OBSTRUC), or cAHI (i.e., MDC\_SABTE\_AHI\_CENTRAL).

*Change Table 7 as shown:*

**Table 7—AHI numeric object attributes**

| Attribute name          | Extended configuration                                                                                                                                                                                   |       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                         | Value                                                                                                                                                                                                    | Qual. |
| Handle                  | See IEEE Std 11073-20601a-2010.                                                                                                                                                                          | M     |
| Type                    | {MDC_PART_PHD_DM,<br>MDC_SABTE_AHI_TOTAL}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_AHI_UNCLASS}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_AHI_OBSTRUC}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_AHI_CENTRAL} | M     |
| Metric-Spec-Small       | mss-avail-intermittent, mss-avail-stored-data, mss-upd-aperiodic, mss-acc-manager-initiated, mss-acc-agent-initiated, mss-cat-calculation.                                                               | M     |
| Unit-Code               | MDC_DIM_EVT_PER_HR                                                                                                                                                                                       | M     |
| Attribute-Value-Map     | See IEEE Std 11073-20601a-2010.                                                                                                                                                                          | C     |
| Basic-Nu-Observed-Value | See IEEE Std 11073-20601a-2010.                                                                                                                                                                          | R     |

## 6.7.4 Therapy Pressure

Change Table 9 and the text immediately following it as shown:

Table 9—Therapy pressure numeric object attributes

| Attribute name          | Extended configuration                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                         | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Qual. |
| Handle                  | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                         | M     |
| Type                    | <del>{MDC_PART_PHD_DM,<br/>MDC_SABTE_PRESS_INSTANT}</del><br>or<br><del>{MDC_PART_PHD_DM,<br/>MDC_SABTE_PRESS_MIN}</del><br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_PRESS_MAX}<br>or<br><del>{MDC_PART_PHD_DM,<br/>MDC_SABTE_PRESS_MIN}</del><br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_PRESS_MEAN}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_PRESS_P50}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_PRESS_P90}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_PRESS_P95} | M     |
| Metric-Spec-Small       | mss-avail-intermittent, mss-avail-stored-data, mss-upd-aperiodic, mss-msmt-aperiodic, mss-acc-manager-initiated, mss-acc-agent-initiated.                                                                                                                                                                                                                                                                                                               | M     |
| Unit-Code               | MDC_DIM_HECTO_PASCAL                                                                                                                                                                                                                                                                                                                                                                                                                                    | M     |
| Attribute-Value-Map     | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                         | C     |
| Basic-Nu-Observed-Value | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                         | R     |

NOTE—See IEEE Std 11073-20601a-2010 for information on whether an attribute is static or dynamic.

The Type attribute is used to distinguish the modality of particular therapy pressure between instantaneous value (i.e., MDC\_SABTE\_PRESS\_INSTANT), ~~minimum of a usage session (i.e., MDC\_SABTE\_PRESS\_MIN),~~ maximum of a usage session (i.e., MDC\_SABTE\_PRESS\_MAX), ~~minimum of a usage session (i.e., MDC\_SABTE\_PRESS\_MIN),~~ arithmetic mean of a usage session (i.e., MDC\_SABTE\_PRESS\_MEAN), 50th percentile of a usage session (i.e., MDC\_SABTE\_PRESS\_P50), 90th percentile of a usage session (i.e., MDC\_SABTE\_PRESS\_P90), or 95th percentile of a usage session (i.e., MDC\_SABTE\_PRESS\_P95).

## 6.7.5 Leakage

Change Table 10 and the text immediately following it as shown:

Table 10—Leakage numeric object attributes

| Attribute name          | Extended configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                         | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Qual. |
| Handle                  | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | M     |
| Type                    | {MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_LEAK_INSTANT}<br>or<br><del>{MDC_PART_PHD_DM,<br/>MDC_SABTE_VOL_LEAK_MIN}</del><br><del>or</del><br>{MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_LEAK_MAX}<br>or<br><del>{MDC_PART_PHD_DM,<br/>MDC_SABTE_VOL_LEAK_MIN}</del><br><del>or</del><br>{MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_LEAK_MEAN}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_LEAK_P50}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_LEAK_P90}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_LEAK_P95} | M     |
| Metric-Spec-Small       | mss-avail-intermittent, mss-avail-stored-data, mss-upd-aperiodic, mss-msmt-aperiodic, mss-acc-manager-initiated, mss-acc-agent-initiated.                                                                                                                                                                                                                                                                                                                                                 | M     |
| Unit-Code               | MDC_DIM_L_PER_MIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | M     |
| Attribute-Value-Map     | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | C     |
| Basic-Nu-Observed-Value | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | R     |

NOTE—See IEEE Std 11073-20601a-2010 for information on whether an attribute is static or dynamic.

The Type attribute is used to distinguish the modality of particular leakage between instantaneous value (i.e., MDC\_SABTE\_VOL\_LEAK\_INSTANT), ~~minimum of a usage session (i.e., MDC\_SABTE\_VOL\_LEAK\_MIN)~~, maximum of a usage session (i.e., MDC\_SABTE\_VOL\_LEAK\_MAX), ~~minimum of a usage session (i.e., MDC\_SABTE\_VOL\_LEAK\_MIN)~~, arithmetic mean of a usage session (i.e., MDC\_SABTE\_VOL\_LEAK\_MEAN), 50th percentile of a usage session (i.e., MDC\_SABTE\_VOL\_LEAK\_P50), 90th percentile of a usage session (i.e., MDC\_SABTE\_VOL\_LEAK\_P90), or 95th percentile of a usage session (i.e., MDC\_SABTE\_VOL\_LEAK\_P95).

## 6.7.6 Respiratory rate

Change Table 11 and the text immediately following it as shown:

Table 11—Respiratory rate numeric object attributes

| Attribute name          | Extended configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                         | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Qual. |
| Handle                  | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                                             | M     |
| Type                    | {MDC_PART_PHD_DM,<br>MDC_SABTE_RESP_RATE_INSTANT}<br>or<br><del>{MDC_PART_PHD_DM,<br/>MDC_SABTE_RESP_RATE_MIN}</del><br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_RESP_RATE_MAX}<br>or<br><del>{MDC_PART_PHD_DM,<br/>MDC_SABTE_RESP_RATE_MIN}</del><br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_RESP_RATE_MEAN}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_RESP_RATE_P50}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_RESP_RATE_P90}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_RESP_RATE_P95} | M     |
| Metric-Spec-Small       | mss-avail-intermittent, mss-avail-stored-data, mss-upd-aperiodic, mss-msmt-aperiodic, mss-acc-manager-initiated, mss-acc-agent-initiated.                                                                                                                                                                                                                                                                                                                                   | M     |
| Unit-Code               | MDC_DIM_RESP_PER_MIN                                                                                                                                                                                                                                                                                                                                                                                                                                                        | M     |
| Attribute-Value-Map     | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                                             | C     |
| Basic-Nu-Observed-Value | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                                             | R     |

NOTE—See IEEE Std 11073-20601a-2010 for information on whether an attribute is static or dynamic.

The Type attribute is used to distinguish the modality of particular respiratory rate between instantaneous value (i.e., MDC\_SABTE\_RESP\_RATE\_INSTANT), ~~minimum of a usage session (i.e., MDC\_SABTE\_RESP\_RATE\_MIN)~~, maximum of a usage session (i.e., MDC\_SABTE\_RESP\_RATE\_MAX), ~~minimum of a usage session (i.e., MDC\_SABTE\_RESP\_RATE\_MIN)~~, arithmetic mean of a usage session (i.e., MDC\_SABTE\_RESP\_RATE\_MEAN), 50th percentile of a usage session (i.e., MDC\_SABTE\_RESP\_RATE\_P50), 90th percentile of a usage session (i.e., MDC\_SABTE\_RESP\_RATE\_P90), or 95th percentile of a usage session (i.e., MDC\_SABTE\_RESP\_RATE\_P95).

## 6.7.7 Tidal volume

Change the Table 12 and the text immediately following it as shown:

Table 12—Tidal volume numeric object attributes

| Attribute name          | Extended configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                         | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Qual. |
| Handle                  | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                                             | M     |
| Type                    | {MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_TIDAL_INSTANT}<br>or<br><del>{MDC_PART_PHD_DM,<br/>MDC_SABTE_VOL_TIDAL_MIN}</del><br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_TIDAL_MAX}<br>or<br><del>{MDC_PART_PHD_DM,<br/>MDC_SABTE_VOL_TIDAL_MIN}</del><br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_TIDAL_MEAN}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_TIDAL_P50}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_TIDAL_P90}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_TIDAL_P95} | M     |
| Metric-Spec-Small       | mss-avail-intermittent, mss-avail-stored-data, mss-upd-aperiodic, mss-msmt-aperiodic, mss-acc-manager-initiated, mss-acc-agent-initiated.                                                                                                                                                                                                                                                                                                                                   | M     |
| Unit-Code               | MDC_DIM_MILLI_L                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M     |
| Attribute-Value-Map     | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                                             | C     |
| Basic-Nu-Observed-Value | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                                             | R     |

NOTE—See IEEE Std 11073-20601a-2010 for information on whether an attribute is static or dynamic.

The Type attribute is used to distinguish the modality of particular tidal volume between instantaneous value (i.e., MDC\_SABTE\_VOL\_TIDAL\_INSTANT), ~~minimum of a usage session (i.e., MDC\_SABTE\_VOL\_TIDAL\_MIN)~~, maximum of a usage session (i.e., MDC\_SABTE\_VOL\_TIDAL\_MAX), ~~minimum of a usage session (i.e., MDC\_SABTE\_VOL\_TIDAL\_MIN)~~, arithmetic mean of a usage session (i.e., MDC\_SABTE\_VOL\_TIDAL\_MEAN), 50th percentile of a usage session (i.e., MDC\_SABTE\_VOL\_TIDAL\_P50), 90th percentile of a usage session (i.e., MDC\_SABTE\_VOL\_TIDAL\_P90), or 95th percentile of a usage session (i.e., MDC\_SABTE\_VOL\_TIDAL\_P95).

## 6.7.8 Respiratory minute volume

Change Table 13 and the text immediately following it as shown:

Table 13—Respiratory minute volume numeric object attributes

| Attribute name          | Extended configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                         | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Qual. |
| Handle                  | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | M     |
| Type                    | {MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_MINUTE_INSTANT}<br>or<br><del>{MDC_PART_PHD_DM,<br/>           MDC_SABTE_VOL_MINUTE_MIN}</del><br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_MINUTE_MAX}<br>or<br><del>{MDC_PART_PHD_DM,<br/>           MDC_SABTE_VOL_MINUTE_MIN}</del><br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_MINUTE_MEAN}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_MINUTE_P50}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_MINUTE_P90}<br>or<br>{MDC_PART_PHD_DM,<br>MDC_SABTE_VOL_MINUTE_P95} | M     |
| Metric-Spec-Small       | mss-avail-intermittent, mss-avail-stored-data, mss-upd-aperiodic, mss-msmt-aperiodic, mss-acc-manager-initiated, mss-acc-agent-initiated.                                                                                                                                                                                                                                                                                                                                                                 | M     |
| Unit-Code               | MDC_DIM_L_PER_MIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | M     |
| Attribute-Value-Map     | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | C     |
| Basic-Nu-Observed-Value | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | R     |

NOTE—See IEEE Std 11073-20601a-2010 for information on whether an attribute is static or dynamic.

The Type attribute is used to distinguish the modality of particular respiratory minute volume between instantaneous value (i.e., MDC\_SABTE\_VOL\_MINUTE\_INSTANT), ~~minimum of a usage session (i.e., MDC\_SABTE\_VOL\_MINUTE\_MIN)~~, maximum of a usage session (i.e., MDC\_SABTE\_VOL\_MINUTE\_MAX), ~~minimum of a usage session (i.e., MDC\_SABTE\_VOL\_MINUTE\_MIN)~~, arithmetic mean of a usage session (i.e., MDC\_SABTE\_VOL\_MINUTE\_MEAN), 50th percentile of a usage session (i.e., MDC\_SABTE\_VOL\_MINUTE\_P50), 90th percentile of a usage session (i.e., MDC\_SABTE\_VOL\_MINUTE\_P90), or 95th percentile of a usage session (i.e., MDC\_SABTE\_VOL\_MINUTE\_P95).

## 6.7.9 I:E ratio

Change Table 14 and the text immediately following it as shown:

Table 14—I:E ratio duration numeric object attributes

| Attribute name          | Extended configuration                                                                                                                                                                                                                                                                                                                                                                                                                               |       |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                         | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                | Qual. |
| Handle                  | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                      | M     |
| Type                    | <del>{MDC_PART_PHD_DM, MDC_SABTE_RATIO_IE_INSTANT}</del><br>or<br><del>{MDC_PART_PHD_DM, MDC_SABTE_RATIO_IE_MIN}</del><br>or<br>{MDC_PART_PHD_DM, MDC_SABTE_RATIO_IE_MAX}<br>or<br><del>{MDC_PART_PHD_DM, MDC_SABTE_RATIO_IE_MIN}</del><br>or<br>{MDC_PART_PHD_DM, MDC_SABTE_RATIO_IE_MEAN}<br>or<br>{MDC_PART_PHD_DM, MDC_SABTE_RATIO_IE_P50}<br>or<br>{MDC_PART_PHD_DM, MDC_SABTE_RATIO_IE_P90}<br>or<br>{MDC_PART_PHD_DM, MDC_SABTE_RATIO_IE_P95} | M     |
| Metric-Spec-Small       | mss-avail-intermittent, mss-avail-stored-data, mss-upd-aperiodic, mss-acc-manager-initiated, mss-acc-agent-initiated, mss-cat-calculation.                                                                                                                                                                                                                                                                                                           | M     |
| Unit-Code               | MDC_DIM_PERCENT                                                                                                                                                                                                                                                                                                                                                                                                                                      | M     |
| Attribute-Value-Map     | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                      | C     |
| Basic-Nu-Observed-Value | See IEEE Std 11073-20601a-2010.                                                                                                                                                                                                                                                                                                                                                                                                                      | R     |

NOTE—See IEEE Std 11073-20601a-2010 for information on whether an attribute is static or dynamic.

The Type attribute is used to distinguish the modality of particular I:E ratio between instantaneous value (i.e., MDC\_SABTE\_RATIO\_IE\_INSTANT), ~~minimum of a usage session (i.e., MDC\_SABTE\_RATIO\_IE\_MIN),~~ maximum of a usage session (i.e., MDC\_SABTE\_RATIO\_IE\_MAX), ~~minimum of a usage session (i.e., MDC\_SABTE\_RATIO\_IE\_MIN),~~ arithmetic mean of a usage session (i.e., MDC\_SABTE\_RATIO\_IE\_MEAN), 50th percentile of a usage session (i.e., MDC\_SABTE\_RATIO\_IE\_P50), 90th percentile of a usage session (i.e., MDC\_SABTE\_RATIO\_IE\_P90), or 95th percentile of a usage session (i.e., MDC\_SABTE\_RATIO\_IE\_P95).

## 6.8 Real-time sample array objects

### 6.8.1 General

*Change the first sentence in 6.8.1 as shown:*

The SABTE DIM for metric objects (see Figure 5) contains two three RT-SA objects for therapy pressure, leakage, and airflow waveform data.

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## Annex C

(normative)

### Allocation of identifiers

#### C.1 Definitions of terms and codes

*Change the code value of MDC\_DEV\_SPEC\_PROFILE\_SABTE as shown:*

```
#define MDC_DEV_SPEC_PROFILE_SABTE          41240    /* */
```

*Change the Reference ID of MDC\_SABTE\_AHI\_CENT as shown:*

```
#define MDC_SABTE_AHI_CENTRAL                22196    /* */
```

*Change the definitions of multiple nomenclature codes, starting from MDC\_SABTE\_PRESS through MDC\_SABTE\_VOL\_TIDAL\_INSTANT, as shown:*

```
#define MDC_SABTE_PRESS                      22336    /* */
#define MDC_SABTE_PRESS_INSTANT              22336    /* */
#define MDC_SABTE_PRESS_MAX                  22337    /* */
#define MDC_SABTE_PRESS_MIN                  22338    /* */
#define MDC_SABTE_PRESS_MEAN                 22339    /* */
#define MDC_SABTE_PRESS_P50                  22343    /* */
#define MDC_SABTE_PRESS_P90                  22345    /* */
#define MDC_SABTE_PRESS_P95                  22346    /* */
#define MDC_SABTE_PRESS_TARGET               22352    /* */
#define MDC_SABTE_PRESS_CPAP_SET             22356    /* */
#define MDC_SABTE_PRESS_CPAP_AUTO_MAX_SET   22360    /* */
#define MDC_SABTE_PRESS_CPAP_AUTO_MIN_SET   22364    /* */
#define MDC_SABTE_PRESS_IPAP_SET             22368    /* */
#define MDC_SABTE_PRESS_EPAP_SET             22372    /* */
#define MDC_SABTE_PRESS_RAMP_START_SET       22376    /* */
#define MDC_SABTE_RESP_RATE_INSTANT          22384    /* */
#define MDC_SABTE_RESP_RATE_MAX              22385    /* */
#define MDC_SABTE_RESP_RATE_MIN              22386    /* */
#define MDC_SABTE_RESP_RATE_MEAN             22387    /* */
#define MDC_SABTE_RESP_RATE_P50              22391    /* */
#define MDC_SABTE_RESP_RATE_P90              22393    /* */
#define MDC_SABTE_RESP_RATE_P95              22394    /* */
#define MDC_SABTE_RESP_RATE_SET              22480    /* */
#define MDC_SABTE_RATIO_IE_INSTANT           22400    /* */
#define MDC_SABTE_RATIO_IE_MAX               22401    /* */
#define MDC_SABTE_RATIO_IE_MIN               22402    /* */
#define MDC_SABTE_RATIO_IE_MEAN              22403    /* */
```

|                                      |       |    |    |
|--------------------------------------|-------|----|----|
| #define MDC_SABTE_RATIO_IE_P50       | 22407 | /* | */ |
| #define MDC_SABTE_RATIO_IE_P90       | 22409 | /* | */ |
| #define MDC_SABTE_RATIO_IE_P95       | 22410 | /* | */ |
| #define MDC_SABTE_RATIO_IE_SET       | 22484 | /* | */ |
| #define MDC_SABTE_VOL_LEAK           | 22432 | /* | */ |
| #define MDC_SABTE_VOL_LEAK_INSTANT   | 22432 | /* | */ |
| #define MDC_SABTE_VOL_LEAK_MAX       | 22433 | /* | */ |
| #define MDC_SABTE_VOL_LEAK_MIN       | 22434 | /* | */ |
| #define MDC_SABTE_VOL_LEAK_MEAN      | 22435 | /* | */ |
| #define MDC_SABTE_VOL_LEAK_P50       | 22439 | /* | */ |
| #define MDC_SABTE_VOL_LEAK_P90       | 22441 | /* | */ |
| #define MDC_SABTE_VOL_LEAK_P95       | 22442 | /* | */ |
| #define MDC_SABTE_VOL_MINUTE_INSTANT | 22448 | /* | */ |
| #define MDC_SABTE_VOL_MINUTE_MAX     | 22449 | /* | */ |
| #define MDC_SABTE_VOL_MINUTE_MIN     | 22450 | /* | */ |
| #define MDC_SABTE_VOL_MINUTE_MEAN    | 22451 | /* | */ |
| #define MDC_SABTE_VOL_MINUTE_P50     | 22455 | /* | */ |
| #define MDC_SABTE_VOL_MINUTE_P90     | 22457 | /* | */ |
| #define MDC_SABTE_VOL_MINUTE_P95     | 22458 | /* | */ |
| #define MDC_SABTE_VOL_TIDAL_INSTANT  | 22464 | /* | */ |
| #define MDC_SABTE_VOL_TIDAL_MAX      | 22465 | /* | */ |
| #define MDC_SABTE_VOL_TIDAL_MIN      | 22466 | /* | */ |
| #define MDC_SABTE_VOL_TIDAL_MEAN     | 22467 | /* | */ |
| #define MDC_SABTE_VOL_TIDAL_P50      | 22471 | /* | */ |
| #define MDC_SABTE_VOL_TIDAL_P90      | 22473 | /* | */ |
| #define MDC_SABTE_VOL_TIDAL_P95      | 22474 | /* | */ |

**Change the format of units to superscript, for the nomenclature codes MDC\_DIM\_L\_PER\_MIN and MDC\_DIM\_EVT\_PER\_HR, as shown:**

```

/*****
* From Dimensions (MDC_PART_DIM) (4)
*****/
#define MDC_DIM_L_PER_MIN          3072    /* 1 min-1 */
#define MDC_DIM_EVT_PER_HR        4732    /* event h-1 */

```