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#### 17 Introduction

The implementation of the UDI System will help to establish a single, globally harmonized system, so that medical device stakeholders will no longer have to access multiple, inconsistent, and incomplete sources in an attempt to identify a medical device and, its key attributes. It is critical to note that the benefits of UDI can only accrue if all stakeholders integrate and utilize UDI throughout their respective systems and processes. Therefore, strengthening training and guidance in production, distribution, and use is of great significance in the implementation of the UDI System.

25 A UDI System comprises three parts: the unique device identifier, the UDI data carrier and the UDI database, corresponding to UDI creation, placement and data upload 26 27 respectively. To address UDI creation and placement, this document stipulates the requirements for implementation and application by stakeholders, and is a useful 28 supplement to the relevant regulations. Given the diverse nature of medical devices, 29 30 discrepancies may exist in UDI implementation for different device types. This document also specifies the requirements for UDI creation and placement for specific 31 32 device types, with the intent to provide references for UDI implementation and 33 application by medical device stakeholders.

34

35

| 36 | <b>Creation and Placement of Unique Device Identifier</b>                                  |
|----|--|
| 37 |  |
| 38 | 1 Scope  |
| 39 | This document specifies the requirements for UDI creation and placement.                   |
| 40 | This document applies to UDI implementation and application by all stakeholders.           |
| 41 |  |
| 42 |  |
| 43 | 2 References   |
| 44 | [1] ISO 15223-1:2021 Medical devices - Symbols to be used with information to be supplied  |
| 45 | by the manufacturer - Part 1: General requirements   |
| 46 | [2] IMDRF UDI WG. UDI Guidance: Unique Device Identification (UDI) of Medical              |
| 47 | Devices.   |
| 48 | [3] IMDRF UDI WG. Unique Device Identification system (UDI system) Application             |
| 49 | Guide.   |
| 50 | [4] BS EN 1556:1998 Bar coding. Terminology  |
| 51 | [5] ISO 13485: 2016 Medical devices — Quality management systems — Requirements for        |
| 52 | regulatory purposes  |
| 53 | * For dated references, only the edition cited applies. For undated references, the latest |
| 54 | edition of the referenced document (including any amendments) applies.                     |
| 55 | [6] MDR Regulation.Regulation (EU) 2017/745 of the European Parliament and of the          |
| 56 | Council of 5 April 2017 on medical devices, amending Directive 2001/83/EC,                 |
| 57 | Regulation (EC) No 178/2002 and Regulation (EC) No 1223/2009 and repealing Council         |
| 58 | Directives 90/385/EEC and 93/42/EEC (Text with EEA relevance.)                             |
| 59 | [7] MDR Regulation.MDCG 2019-8 v2 Guidance document Implant Card relating to the           |
| 60 | application of Article 18 Regulation (EU) 2017/745 of the European Parliament and of       |
| 61 | the Council of 5 April 2017 on medical devices   |
| 62 | [8] YY/T 1879-2022 Creation and placement of unique device identifier. Pharmaceutical      |
| 63 | Industry Standard of the People's Republic of China.                                       |
| 64 |  |
| 65 |  |
| 66 | 3 Terms, Definitions and Abbreviations   |
| 67 | 3.1 Terms and Definitions  |
| 68 | 1) General Terms   |

| 69  | Unique Device Identification system  |
|-----|--|
| 70  | The identification system for medical devices composed of a device identifier, a           |
| 71  | production identifier, a unique device identifier data carrier, and unique device          |
| 72  | identification database.   |
| 73  |  |
| 74  | Label  |
| 75  | The literal instructions, graphic information appearing on the medical device itself or on |
| 76  | its packaging, which are used to identify the product features and indicate the safety     |
| 77  | warnings and other information.  |
| 78  |  |
| 79  | Labelling  |
| 80  | The label, instructions for use and any other information related to the identification,   |
| 81  | technical description, intended use and proper use of the medical device, not including    |
| 82  | shipping document.   |
| 83  |  |
| 84  | Direct Marking   |
| 85  | The process of applying the unique device identifier permanently to the device itself.     |
| 86  | Note1: For devices intended to be used more than once and intended to be reprocessed       |
| 87  | before each use, direct marking can make the device identifiable after reprocessing. Some  |
| 88  | jurisdictions may place direct marking mandatory for certain kind of device. While the     |
| 89  | definition of reprocessing can be further outlined in national regulations.                |
| 90  | Note2: If the medical device is packaged, the direct marking may be accepted different     |
| 91  | than UDI-DI on the device label.   |
| 92  |  |
| 93  | Shipping Container   |
| 94  | A container where the traceability is controlled by a logistics system process whose       |
| 95  | contents may vary from one shipment to another.  |
| 96  |  |
| 97  | Packaging Level  |
| 98  | The various levels of device packages that contain a fixed quantity of medical devices.    |
| 99  | Note: This does not include shipping containers.   |
| 100 |  |
| 101 | Minimum sales unit   |
| 102 | For the purpose of product sales, the minimum sales package of the product assigned by     |

| 103 | the manufacturer.  |
|-----|--|
| 104 | Note1: The minimum sales unit is usually the lowest level of packaging with UDI.             |
| 105 | Note2: When the minimum sales unit contains multiple medical devices, healthcare             |
| 106 | facilities should have access to the minimum sales unit packaging to ensure the traceability |
| 107 | of the medical device.   |
| 108 |  |
| 109 | 2) Unique Device Identifier  |
| 110 | Unique Device Identifier(UDI)  |
| 111 | A series of codes composed of numbers, letters and/or symbols and created based on a         |
| 112 | standard. It is comprised of device identifier and production identifier and used for the    |
| 113 | uniqueness identification of a medical device.   |
| 114 | Note 1: The word "unique" does not imply serialization management of individual              |
| 115 | products.  |
| 116 | Note 2: It can be used for the management and tracing of medical device products.            |
| 117 |  |
| 118 | Device Identifier (UDI-DI)   |
| 119 | A unique code specific to a specification, model or packaging of medical device.             |
| 120 | Note: Device identifier can be used as the "access key" to information stored in a unique    |
| 121 | device identification database to associate the product information, manufacturer            |
| 122 | information and registration information of the medical device.                              |
| 123 |  |
| 124 | Production Identifier (UDI-PI)   |
| 125 | A code that identifies the data related to the production process of the medical device.     |
| 126 | Note: According to the actual application requirements, a production identifier may          |
| 127 | include the serial number, batch/lot number, software version, manufacturing date, and       |
| 128 | expiration date of the medical device.   |
| 129 |  |
| 130 | Data Delimiter   |
| 131 | A character or character set that defines a specific data element in a unique device         |
| 132 | identifier.  |
| 133 | Note: Some examples of data delimiters include application identifier (AI) and object        |
| 134 | identifier (OID).  |
| 135 |  |
| 136 | Unit of Use Device Identifier (UoU UDI-DI)   |

| 137 | An identifier assigned to an individual medical device when a UDI is not labeled on the           |
|-----|---|
| 138 | individual device at the level of its unit of use. Its purpose is to associate the use of a       |
| 139 | device to/on a patient.   |
| 140 | Note: For example, for one pack of N (N>1) blood collection tubes, an identifier assigned         |
| 141 | to an individual blood collection tube when a UDI is not labeled on the individual blood          |
| 142 | collection tube.  |
| 143 |   |
| 144 | 3) Unique Device Identifier Data Carrier  |
| 145 | Unique Device Identifier Data Carrier   |
| 146 | The data medium that stores or transfers the UDI. The UDI Carrier is the means to convey          |
| 147 | the UDI by using AIDC and, if applicable, its HRI.  |
| 148 |   |
| 149 | One-dimensional bar code  |
| 150 | A bar code symbol that represents information only in one-dimensional direction. Usually          |
| 151 | referred to as a linear bar code.   |
| 152 |   |
| 153 | Two-dimensional bar code  |
| 154 | A bar code symbol that represents information in two-dimensional directions. Contains             |
| 155 | information within its horizontal and vertical structure.   |
| 156 |   |
| 157 | Radio frequency identification (RFID)   |
| 158 | A technology that uses the electromagnetic or inductive coupling in the RF section of the         |
| 159 | spectrum to intercommunicate with an RF tag for the purpose of the unique reading of its          |
| 160 | identity through various modulation and coding schemes.   |
| 161 |   |
| 162 | RF Tags   |
| 163 | A data carrier that is used for the identification of an object or article and has the ability to |
| 164 | store information, receive electromagnetic modulation signals from a reader-writer and            |
| 165 | send back corresponding signals.  |
| 166 |   |
| 167 | 4) Unique Device Identification Database  |
| 168 | Unique Device Identification Database (UDID)  |
| 169 | The database that stores the device identifier and other relevant information about specific      |
| 170 | devices.  |

| 171 |  |  |  |
|-----|--|--|--|
| 172 | 3.2 Ab   | breviations  |  |
| 173 | The following abbreviations are applicable to this document. |  |  |
| 174 | AI   | DC: automatic identification and data capture  |  |
| 175 | HR   | I: human readable information/interpretation   |  |
| 176 | UD   | I: unique device identifier  |  |
| 177 | UD   | ID: unique device identification database UDI-DI: device identifier                    |  |
| 178 | UD   | PI-PI: production identifier   |  |
| 179 | Uo   | U UDI-DI: unit of use device identifier  |  |
| 180 |  |  |  |
| 181 |  |  |  |
| 182 | 4 Gen  | eral principles for UDI creation   |  |
| 183 | UD   | I creation should follow the general principles listed below.                          |  |
| 184 | 1)   | The UDI should contain two parts: an UDI-DI and an UDI-PI.                             |  |
| 185 | 2)   | The UDI should be created according to the coding rules of the issuing agency          |  |
| 186 |  | selected; if the national regulations and standards provide otherwise, such provisions |  |
| 187 |  | should be followed.  |  |
| 188 | 3)   | A UDI should be assigned to the device itself, its package, or the minimum sales unit  |  |
| 189 |  | of the medical device, and higher levels of packaging (not including shipping          |  |
| 190 |  | containers) should have their own UDI.   |  |
| 191 | 4)   | Different UDI-DIs should be assigned to each level of device packaging, see Table 1,   |  |
| 192 |  | and the linkage in the UDID should be maintained.                                      |  |
| 193 |  |  |  |
| 194 |  | Table 1 Device Identification and Packaging Diagram of Medical Devices                 |  |
|     |  |  |  |

| Single device or    | Box                    | Carton                     |
|---------------------|------------------------|----------------------------|
| minimum package     |                        |                            |
| Quantity=1          | Quantity in each box=9 | Quantity in each carton=54 |
| Device identifier A | Device identifier B    | Device identifier C        |

- 5) When the minimum sales unit contains more than one identical unit of use, a UoU UDIDI should be assigned and stored in the UDID to associate the use of a device with a
  patient.
- 6) The UDI-DI should be stable. If there is no change in the essential characteristics of the medical device, the UDI-DI should remain the same, but whenever there is a change that could lead to misidentification of the medical device and/or ambiguity in its traceability, a new UDI-DI is required, for example, change in the quantity of products in the package, packaging sterility status and/or labeling for single use, etc.
- Note: Essential characteristics of UDI-DI can be further outlined in national regulations.
   Whether this is the responsibility of an individual or an institution can depend on
   national regulations. It is recommended to minimize differences between regulatory
   agencies.
- 7) The composition of the UDI-PI should be consistent with the label. For example, when the label of the medical device contains one or more of the production batch number, serial number, manufacturing date and expiration date of the medical device, it is recommended that they should be part of the UDI-PI, and the content should be identical to the corresponding information on the label; if the representation format of the date is involved, it should conform to the coding standard of the issuing agency selected.
- Note1: If some regulatory agencies allow other traceability information in the label, themanufacturing date may not be placed in the PI.
- 217 Note2: Software as a Medical Device (SaMD) version.
- 8) The UDI-PI characteristics (e.g. lot or serial number) shall be defined by the manufacturer according to the manufacturer's quality management. For medical devices controlled by batch production, considering the application scenario, if marking on a single product is required, a serial number should be included in addition to the combination of UDI-DI and production batch number, or other data delimiters should be included according to the coding standard of the issuing agency selected.
- 224
- 225

## 226 5 General Principles for UDI Placement

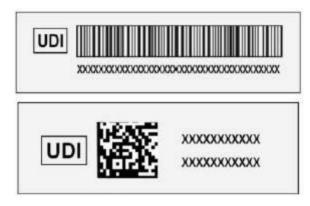
227 UDI placement should follow the general principles listed below.

The UDI placement requirements should not replace the requirements of existing
 marking or labelling regulations.

- 2) UDI placement should be done according to the criteria or specifications of the issuing agency, and the issuing agency should provide the data carrier rules for its criteria, including but not limited to the requirements for carrier type, size, placement and carrier quality, and the recommendation for the corresponding HRI representation form.
- 3) UDI data carriers include AIDC and HRI, and the HRI portion should include data
  delimiter. In case of space constraints or restrictions of use, the AIDC carrier form
  should be favored.
- 4) To facilitate all stakeholders throughout distribution and use to quickly search and locate UDI data carriers, the UDI graphic symbols (see Table 2) specified in 5.7.10 of ISO 15223-1:2021 should be used to identify data carriers containing UDI information. If used, it shall comply with the requirements of ISO 15223-1:2021. For the one-dimensional code and/or two-dimensional code data carrier identification using this symbol, see Figure 1.
- 244
- 245

Table 2 Symbols to convey medical device information

| Reference   |          |              |                      |            | Restric | ISO/IEC symbol          |
|-------------|----------|--------------|----------------------|------------|---------|-------------------------|
| number and  | Title    | Description  | Requirements         | Notes      | tions   | number and              |
| graphic     |          |              |                      |            | of use  | registration date       |
|             |          |              | This symbol may      |            |         |                         |
| 5.7.10 (ISO |          | Indicates a  | be used when         | This       |         |                         |
| 15223-      |          | data carrier | multiple data        | symbol     |         |                         |
| 1:2021)     | Unique   |              | carriers are present | identifies |         |                         |
|             | Device   |              | on the label. If     | the UDI    |         | N/A                     |
| г 7         | Identifi | Device       | used, this symbol    | carrier,   |         | $\mathbf{N}/\mathbf{A}$ |
|             | er       | Identifier   | shall be placed      | including  |         |                         |
| UDI         |          | information  | adjacent to the      | the AIDC   |         |                         |
| L _         |          | mormation    | Unique Device        | and HRI.   |         |                         |
|             |          |              | Identifier carrier.  |            |         |                         |



248Figure 1 Schematic representation of 1D and/or 2D code using UDI graphic249symbol

Note: This figure is for the purpose of illustration only to provide a reference for theuse of UDI graphic symbols.

UDI data carriers should be placed in an easily visible position. If other types of AIDC
representation other than UDI are placed on the relevant packaging, label or device,
the placement of these other internal or proprietary AIDC markings should be done
in such a way as to avoid causing confusing with UDI data carriers.

# 6) UDI data carriers should be readily readable throughout distribution and use of medical devices. Currently, the common forms of data carriers include: marking on the package, marking on the label and direct marking on the device itself, as shown in Figures 2 to 4.



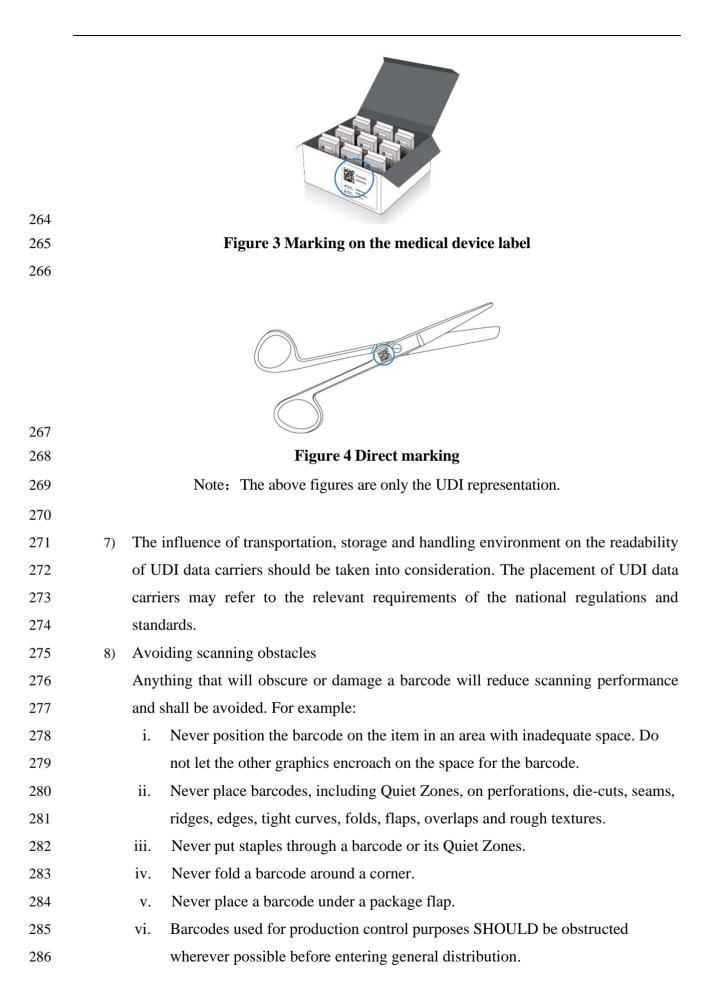
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Figure 2 Marking on the medical device package

263



| 287 |  |   |  |  |
|-----|--|---|--|--|
| 288 | O  | oscuring the barcodes on individual units inside the multipack is necessary so they are |  |  |
| 289 | not confused with the outer multipack barcode, which shall have different DIs. |   |  |  |
| 290 | 1)   | If the space permits, considering the management and use needs of medical devices,      |  |  |
| 291 |  | it is encouraged to assign UDI data carriers at the level of device unit of use.        |  |  |
| 292 | 2)   | Reusable medical devices should be assigned with UDI data carriers via direct           |  |  |
| 293 |  | marking. If direct marking is used, the UDI data carrier should be readable after each  |  |  |
| 294 |  | reprocessing cycle for the intended life of the product.                                |  |  |
| 295 | 3)   | Direct marking should not compromise the safety and effectiveness of the medical        |  |  |
| 296 |  | device.   |  |  |
| 297 |  |   |  |  |
| 298 |  |   |  |  |
| 299 | 6 UDI  | Creation and Placement General Principles for Specific Device Types                     |  |  |
| 300 | 6.1 Me   | dical Device Kits   |  |  |
| 301 | UD   | I creation and placement for medical device kits should follow the general              |  |  |
| 302 | prin   | ciples listed below:  |  |  |
| 303 | 1)   | Individually sold and used medical device kits should have their own UDI;               |  |  |
| 304 | 2)   | Individually sold and used medical devices within a medical device kit should have      |  |  |
| 305 |  | their own UDI;  |  |  |
| 306 | 3)   | Single-use disposable medical devices within a medical device kit which are not         |  |  |
| 307 |  | intended for use outside the context of the kit do not require their own UDI.           |  |  |
| 308 |  |   |  |  |
| 309 | 6.2 Sof  | tware as a Medical Device (SaMD)  |  |  |
| 310 | UD   | I creation and placement for SaMD should follow the general principles listed below.    |  |  |
| 311 | 1)   | The UDI should be assigned at the level of the device.                                  |  |  |
| 312 | 2)   | The full version of the software is considered an important tool to achieve SaMD        |  |  |
| 313 |  | traceability and should be displayed in the UDI-PI.                                     |  |  |
| 314 | 3)   | A major software update for SaMD would require a new UDI-DI, and only a minor           |  |  |
| 315 |  | software update would require a new UDI-PI (not a new UDI-DI).                          |  |  |
| 316 | Maj  | or software update whenever there is a modification that changes:                       |  |  |
| 317 |  | (i) the original performance;   |  |  |
| 318 |  | (ii) the safety or the intended use of the software;                                    |  |  |
| 319 |  | (iii) interpretation of data.   |  |  |
| 320 | Min  | or software update are generally associated with bug fixes, usability enhancements that |  |  |

- 321 are not for safety purposes, security patches or operating efficiency.
- 322 Minor software update shall be identified by a manufacturer-specific form of identification.
- 323 4) Typically, the software version can be represented by the data delimiter of the
  324 production batch number. If the issuing agency assigns a specific data delimiter for the
  325 software version, such specification can also be followed.
- 5) When the SaMD is delivered on a physical medium, e.g. CD or DVD, each package level shall bear the human readable and AIDC representation of the complete UDI. The UDI that is applied to the physical medium containing the SaMD and its packaging must be identical to the UDI assigned to the system level SaMD.
- 330 6) UDI should be provided on a readily accessible screen by the user in an easily-readable
  331 plain-text format (e.g. an "about" file or included on the startup screen).
- 332 7) The SaMD lacking a user interface must be capable of transmitting the UDI through an
  333 Application Programming Interface (API).
- Note: The cybersecurity of the UDI data transfer requires integrity of all incoming data, ensuring that it is not modified in transit or at rest. Also, it requires all data originating from external sources is well-formed and compliant with the expected protocol or specification.
- 337 8) Only the human readable portion of the UDI is required in electronic displays of the338 SaMD. (including data delimiter).
- The UDI AIDC marking needs not be used in the electronic displays, e.g. about menu, splash screen, etc...; i.e. SaMD not being distributed by the use of physical data carriers (CDs, DVDs or similar) will not carry an AIDC.
- 342
- 343 6.3 Implantable Devices
- 344 UDI creation and placement for implantable devices should follow the general principles345 listed below:
- The lowest level of device packaging of implantable devices shall be identified with
   an UDI;
- 348 2) The UDI-PI of active implantable devices shall contain at least the serial number, and
  349 the UDI-PI of other implantable devices shall contain at least the production batch
  350 number and/or serial number;
- 351 3) The UDI of the implantable device must be identifiable prior to implantation;
- 4) If the implantable device is affixed with an identification used to record medical
   device-related information in the medical record, UDI information should be included.
- 354

| GENERICMED International Implant Card         | en Pacemaker / bg neikoweikoop / cs Kardiostimulátor / da Pacemaker /<br>de Schrittmacher / el Bryuroöörng / es Marcapasos / et Südamestimulaato<br>fi svdamentahdistin / fr Stimulateru cardiague / hr Peismeiker /                 |
|---|--|
| P? John Smith                                 | hu Pacemaker / it Stimolatore cardiaco / is Gangverkamaður / It širdies<br>stimuliatorius / Iv Elektrokardiostimulators / nl Pacemaker / no pacemaker /<br>pl Rozrusznik serce / pt-pt Marcapasso/ ro pacemaker / sk kardiostimulato |
| 31 27/05/2021                                 | si Srčni spodbujevalnik / sv Pacemaker   |
| ABC Healthcare Center                         | MD PM-5503 Pacer Advanced  |
| 123 Medical Parkway, Cork, Ireland            | UDI-DI: (01)01865494261654 UDI 분%방식법   |
| Dr. H.C. Professional                         | SN SN79856214  |
| https://www.genericmed.com/patientimplantinfo | Genericmed<br>500 Genericmed Place, Minneapolis, MN 55123 USA<br>www.genericmed.com  |

355 356

### Figure 5 Patient Implant Card Representation

357 **6.4 Configurable Medical Device** 358 A configurable medical device system consists of several components which can be 359 360 assembled in multiple configurations. Those individual components may be medical devices itself and/or non-medical devices. 361 Examples are Computed Tomography (CT) systems, Ultrasound systems, Anesthesia 362 systems, Physiological Monitoring systems, Radiology Information System (RIS). 363 364 Configuration 365 366 Configuration is a combination of items of equipment, as specified by the manufacturer, that operate together to provide an intended use or purpose as a medical device. The 367 combination of items may be modified, adjusted or customized to meet a customer need. 368 The configuration may take place before a device is purchased or after the device has been 369 370 placed on the market. 371 Examples: 372 CT: gantry, tube, table, console are items of equipment that can be 1. configured/combined to deliver an intended function. 373 374 2. Anesthesia: ventilator, breathing circuit, vaporizer are items of equipment that can be configured/combine to deliver an intended function. 375 376 For configurable medical device systems, the rules listed below should be followed: 377 A UDI-DI is allocated to the entire, configurable medical device system and may be 378 1. referred to as a "Configurable Device UDI" or "System UDI". The Configurable 379 Device UDI or System UDI is used on device labels, device registrations, UDI 380 381 databases, and for various processes where UDI is utilized. 382

- A Configurable Device UDI-DI is allocated to defined groups of configurations, not
  per configuration within the group. While generally UDI-DI assignments are applied
  to medical devices models with entirely homogeneous features, a Configurable device
  by definition has different variations, and the UDI-DI is therefore defined by the
  collection of possible configurations for a given product model as described in a
  regulatory file.
- 389

The UDI-PI for a Configurable device is generally a serial number and is allocated to 390 3. 391 each individual system. Since there is expected to be known variability for the possible 392 variations of configurations for this model, the UDI-PI is essential to distinguishing 393 between specific variations of the device. Note that a given Configurable Device or System UDI may have additional UDI-PI indicators including manufacturing date, etc. 394 395 Additionally, a later change or addition of a component, sub-systems, or accessory of 396 the system that has already been placed on the market does not change the original UDI-DI or UDI-PI of the system. It is necessary to be able to uniquely identify the changed 397 398 device configurations in the field and the applicable records may now include more than one UDI for the device. 399

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- 401
  4. The carrier of the System UDI should be placed on the assembly or portion of the device
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- Each component, sub-system or accessory that is considered a medical device and is
  distributed or supplied independently from the original device needs a separate UDI.
  Some Configurable Devices may have multiple UDI assignments.
- 4086. A new UDI-DI is required when the activities performed results in modifications to a409previously marketed device intended for resale leads to a new medical device.
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411 Note1: If a change of a device in the field would significantly change the safety, 412 performance or the intended purpose (and these changes are not within the limits of the 413 original configuration), those changed devices should be identifiable. To make the 414 changed device identifiable a manufacturer should provide an upgrade kit (which, itself, 415 is considered a medical device) with a correspondent UDI which meets all UDI 416 requirement (e.g. labelling, publication to UDI database(s), etc.). The UDI of the 417 upgrade kit together with the original System UDI will be used to identify the changed
418 device. A UDI label should accompany the upgrade kit and be permanently attached to
419 the System UDI and captured in the record of the specific device.

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421 Note2: An "upgrade kit" (to be distinguished from the term "kit" defined in this 422 document) is a term commonly used in industry to denote a packaged medical device 423 used to upgrade an installed medical device (after this latter has been sold and first use 424 or installation is completed). The "upgrade kit" includes all of the components or 425 constituents required for the medical device upgrade and may also include installation 426 instructions, service manuals and user manuals.

427

### 428 Alternate Process

429 An alternate process would be that a manufacturer might perform this change as new 430 installation (comparable with a resale of a modified device as described in point 6) the 431 new installed device would need to be marked with a corresponding new System UDI. 432 If this alternate process is utilized, the device manufacturer is responsible for updating 433 the UDI labeling for devices that have been placed on the market and making the 434 associated change in the applicable regulatory databases.

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-----End of the Document-----