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# Unique Device Identification: Direct Marking of Devices

## Draft Guidance for Industry and Food and Drug Administration Staff

*DRAFT GUIDANCE*

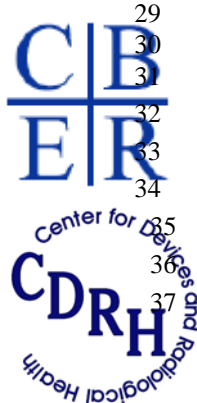
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**Document issued on June 26, 2015.**

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## **Preface**

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55

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# Unique Device Identification: Direct Marking of Devices

## Draft Guidance for Industry and Food and Drug Administration Staff

This draft guidance, when finalized, will represent the current thinking of the Food and Drug Administration (FDA or Agency) on this topic. It does not establish any rights for any person and is not binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and regulations. To discuss an alternative approach, contact the FDA staff responsible for this guidance as listed on the title page.

### I. Introduction

When finalized, this draft document will assist industry, particularly labelers, as defined under 21 CFR 801.3, and FDA staff in understanding FDA's requirements for direct marking of devices for unique device identification purposes. Under 21 CFR 801.45, "[a] device that must bear a unique device identifier (UDI) on its label must also bear a permanent marking providing the UDI on the device itself if the device is intended to be used more than once and intended to be reprocessed before each use." This draft guidance defines some terms used in the Agency's regulations pertaining to the UDI direct marking requirements, including how FDA interprets the term "reprocessed" as used in 21 CFR 801.45. For additional background on the UDI system, see the UDI System Final Rule, published on September 24, 2013 (78 FR 58786) (the [UDI Rule](#)).

Throughout this draft guidance document, the terms "we," "us" and "our" refer to FDA staff from Center for Devices and Radiological Health (CDRH) and the Center for Biologics Evaluation and Research (CBER). "You" and "your" refers to the labeler, as that term is defined in 21 CFR 801.3.

FDA's guidance documents, including this draft guidance, do not establish legally enforceable responsibilities. Instead, guidances describe the Agency's current thinking on a topic and should be viewed only as recommendations, unless specific regulatory or statutory requirements are cited. The use of the word *should* in Agency guidances means that something is suggested or recommended, but not required.

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131 **II. Background**

132 Section 226 of the Food and Drug Administration Amendments Act of 2007 (FDAAA),  
133 121 Stat. 854, and Section 614 of the Food and Drug Administration Safety and  
134 Innovation Act of 2012 (FDASIA), 126 Stat. 1061, amended the Federal Food, Drug, and  
135 Cosmetic Act to add Section 519(f) (21 U.S.C. 360i(f)), which directs FDA to issue  
136 regulations establishing a unique device identification system for medical devices along  
137 with implementation timeframes for certain medical devices. The UDI Rule, establishing  
138 the unique device identification system, was published on September 24, 2013 (78 FR  
139 58786) (the UDI Rule). It requires that the label and each device package of a medical  
140 device distributed in the United States bear a unique device identifier (UDI), unless an  
141 exception or alternative applies. The UDI regulations also require specified information  
142 to be submitted to FDA's Global Unique Device Identification Database (GUDID). Most  
143 of the information submitted to GUDID is available to the public through [AccessGUDID](#).

144

145 The UDI system seeks to improve the identification of medical devices by making it  
146 possible to rapidly and definitively identify a device and some key attributes that affect its  
147 safe and effective use. This will facilitate more accurate reporting of adverse events by  
148 making it easier to pinpoint the device at issue in the submitted report. FDA, health care  
149 providers, and industry may then more rapidly and precisely extract useful information  
150 from adverse event reports and thereby gain a better understanding of the underlying  
151 problems and improve the ability to take appropriate and better-focused corrective action.

152

153 The UDI regulation at 21 CFR 801.45 requires a UDI direct marking on a device if the  
154 device is intended to be used more than once and intended to be reprocessed before each  
155 use. This requirement applies to class I, II and III devices, with certain exceptions. As  
156 explained in the preamble of the UDI Rule, direct marking requirements apply to devices  
157 that are intended to be used for months or years, sometimes many years. Because such  
158 devices are intended to be reprocessed and reused, they will inevitably be separated from  
159 their original labels and device packages. Direct marking helps to ensure the adequate  
160 identification of such devices through their distribution and use. However, the UDI Rule  
161 does not define "intended to be used more than once" or "reprocessed". FDA's  
162 interpretation of these terms as they are used in 21 CFR 801.45 is included in this  
163 document.

164 **III. Questions and Answers**

165 **A. Direct Marking**

166

167 **1. What is direct marking?**

168

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169 Direct marking, for purposes of UDI requirements, is affixing a UDI permanently on the  
170 device itself.

171  
172 **2. Which devices are required to be directly marked?**

173  
174 Under 21 CFR 801.45(a), if a UDI is required on a device label, that device is also required to  
175 have a UDI permanently affixed to the device itself if the device is intended to be used more  
176 than once and intended to be reprocessed before each use. This requirement applies to all  
177 device classes, except class I devices that bear a Universal Product Code (UPC) on their label  
178 and device packages, as provided in 21 CFR 801.40(d). As explained in the preamble of the  
179 UDI Rule, direct marking requirements apply to devices that are intended to be used for  
180 months or years, sometimes many years. Because such devices are intended to be  
181 reprocessed and reused, they will inevitably be separated from their original labels and device  
182 packages. Direct marking best assures the adequate identification of such devices.

183  
184 **3. What are the compliance dates for the direct marking**  
185 **requirements?**  
186

187 The compliance date, i.e., the date by which you must comply with the UDI direct  
188 marking requirements, is based on the device category as shown below and also on the  
189 UDI webpage: [www.fda.gov/udi](http://www.fda.gov/udi). The compliance dates for UDI direct marking  
190 requirements are listed below:  
191

<b>Direct Marking Compliance Date</b>	<b>Category of Device Intended to be Reused and Reprocessed</b>
9/24/2015	Life-sustaining and life-supporting devices, regardless of device class <sup>1</sup>
9/24/2016	Class III devices and devices licensed under the Public Health Service Act
9/24/2018	Class II devices
9/24/2020	Class I devices and unclassified devices

192  
193  
194 **4. What about a device that has been manufactured and labeled**  
195 **prior to its UDI compliance date?**  
196

197 Under 21 CFR 801.30(a)(1), a finished device manufactured and labeled prior to its  
198 compliance date for 21 CFR 801.20 is excepted from UDI labeling requirements until three  
199 years after the UDI compliance date for 21 CFR 801.20 for that particular device. Because  
200 direct marking requirements and data submission requirements are tied to the UDI labeling  
201 requirement at 21 CFR 801.20, the exception at 21 CFR 801.30(a)(1) applies to these

---

<sup>1</sup>See <http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/UniqueDeviceIdentification/default.htm>, UDI Resources for list.

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202 requirements as well. For example, the compliance date for 21 CFR 801.20 for class III  
203 devices was September 24, 2014. Thus, an individual Class III device requiring direct  
204 marking that was manufactured and labeled on May 1, 2014, would not be required to be in  
205 compliance with UDI labeling, direct marking, or GUDID data submission requirements until  
206 September 24, 2017.

207  
208 **5. Does FDA specify a method to directly mark a device?**  
209

210 No. We expect the permanent UDI to comply with the requirements of 21 CFR 801.45(b) and  
211 (c) and last throughout the expected use life of the device, taking into account expected usage  
212 and reprocessing. Possible methods to directly mark a device with a UDI include etching,  
213 attaching a permanent plaque to durable equipment, or affixing a permanent tag such as a  
214 radio frequency identification (RFID) tag to the device. However, we do not specify any  
215 particular approach to directly mark devices, because it would be difficult to account for the  
216 wide variety of existing devices, use conditions, and reprocessing methods for these devices.  
217 Moreover, technological advancements may lead to change in device usage, methods of  
218 device marking, and reprocessing procedures. The labeler should determine the appropriate  
219 method to provide such a marking on the device itself.

220  
221  
222 **6. For currently legally marketed devices, does affixing a permanent**  
223 **marking on the device to comply with UDI requirements require a**  
224 **premarket approval (PMA) supplement, a biologics license application**  
225 **(BLA) supplement, or a new premarket notification (510(k)) submission?**  
226

227 For devices classified through the de novo process or cleared in a 510(k) submission, we  
228 expect you to conduct analysis and/or testing to determine whether direct marking could  
229 significantly affect the safety or effectiveness of the device and to document the basis for  
230 your determination in the design history file. See 21 CFR 807.81(a)(3)(i). If any type of  
231 direct marking would interfere with the safety or effectiveness of your device, your device  
232 would qualify for the exception under 21 CFR 801.45(d)(1), and we encourage you to make  
233 use of this exception if it applies. If any type of direct marking would interfere with the  
234 safety or effectiveness of your device but you wish to directly mark your device, thereby not  
235 making use of this exception, clearance of a new 510(k) submission would generally be  
236 required, since we anticipate that a direct marking that would interfere with the safety or  
237 effectiveness of a device under 21 CFR 801.45(d)(1) also could significantly affect the safety  
238 or effectiveness of the device under 21 CFR 807.81(a)(3)(i). When in doubt, we encourage  
239 you to contact the CDRH or CBER review division relevant for your device to discuss your  
240 specific situation.

241  
242 For devices approved in a PMA or BLA, if adding a UDI direct marking would affect the  
243 safety or effectiveness of the device, this will require a supplemental PMA or BLA. 21  
244 CFR814.39. FDA believes this will typically be the case. If, however, adding a UDI direct  
245 marking to a device approved in a PMA or BLA would not affect safety and effectiveness, no

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246 supplement would be required, but this change should be reported in an annual report. For  
247 PMA devices, please review the guidance, Modifications to Devices Subject to Premarket  
248 Approval (PMA) - The PMA Supplement Decision at  
249 <http://www.fda.gov/medicaldevices/deviceregulationandguidance/guidancedocuments/ucm089274.htm>. For BLA devices, please review the guidance, Changes to an Approved  
250 Application: Biological Products at  
251 <http://www.fda.gov/downloads/biologicsbloodvaccines/guidancecomplianceregulatoryinformation/guidances/blood/ucm170166.pdf> .  
252  
253  
254  
255

256 **7. If a PMA supplement, BLA supplement, or new 510(k) is required**  
257 **as a result of UDI direct marking requirements, are user fees also**  
258 **required?**  
259

260 Yes. You must pay the applicable user fee, if any, if you submit a PMA supplement, a BLA  
261 supplement or a new 510(k) submission. There are no user fee waivers for submitting a  
262 PMA supplement, a BLA supplement, or a new 510(k) submission as a result of UDI direct  
263 marking requirements. However, FDA encourages you to bundle your required submissions  
264 rather than submit individually, which will reduce both administrative and user fee burdens.  
265 See FDA guidance entitled “Bundling Multiple Devices or Multiple Indications in a Single  
266 Submission” issued on June 22, 2007 ([Bundling Guidance](#)).  
267  
268

269 **8. What are the GUDID data submission requirements for devices**  
270 **that must be directly marked with a UDI?**  
271

272 Under 21 CFR 801.40(b), each UDI must include a device identifier (DI) segment. The UDI  
273 on the device’s label may be the same or different from the UDI directly marked on the  
274 device (see section III.B.2), which means two different DIs may be associated with the same  
275 device at the base package level. For the purposes of this draft guidance, the DI on a device’s  
276 label is referred to as the primary DI, and the DI that is directly marked on a device is referred  
277 to as the direct-mark DI (DM-DI).  
278

279 The UDI regulation at 21 CFR 830.310 sets forth the information submission requirements  
280 for all devices required to bear a UDI on their label. Each primary DI must be submitted to  
281 GUDID, as required by 21 CFR 830.310(b)(1). If the DI and the DM-DI are the same, no  
282 additional information needs to be submitted to GUDID. If the DI and the DM-DI are  
283 different, the labeler must submit the DM-DI. 21 CFR 830.310(b)(3). In this case, the  
284 labeler should check the box “DM DI Different from Primary DI” and enter the DM-DI  
285 Number as part of its GUDID submission. As stated in section III.A.9., we expect the records  
286 required under 21 CFR 830.360 to indicate whether DM-DI is the same or different from the  
287 primary DI.  
288



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289 If you are applying one of the exceptions listed in 21 CFR 801.45(d), you should check the  
290 box “Device Subject to Direct Marking (DM), but Exempt.” We outline the general  
291 exceptions to the UDI direct marking requirements in section III.D of this draft guidance.  
292

293 **9. What are the recordkeeping requirements for devices that must be**  
294 **directly marked with a UDI?**  
295

296 The record requirements under 21 CFR 830.360 apply to UDI direct markings as well as  
297 UDIs placed on the device label and device packages. We expect that the records will  
298 indicate whether a device is directly marked and whether the DM-DI is the same or different  
299 from the primary DI. The records do not need to list each individual UDI [DI plus production  
300 identifier (PI)] separately. Rather, the labeler should maintain records for each DI with its  
301 associated range of PIs. The records should be regularly updated to reflect additional PIs  
302 associated with each DI. If your device falls within one of the exceptions from direct  
303 marking under 21 CFR 801.45(d) and you decide to make use of such, you are required to  
304 keep records supporting this decision in the design history file (see 21 CFR 801.45(e)). If  
305 you determine any type of direct marking would interfere with the safety and effectiveness of  
306 the device (21 CFR 801.45(d)(1)), we expect the rationale that supports your decision to be  
307 scientifically justified by analysis and/or testing. If the device cannot be directly marked  
308 because it is not technologically feasible (21 CFR 801.45(d)(2)), we expect you to document  
309 the rationale for the technological infeasibility in the design history file.  
310

311 **10. May a labeler voluntarily comply with direct marking**  
312 **requirements?**  
313

314 Yes. We encourage affixing a UDI permanently on devices even when not required. If a  
315 labeler of a device that is not required to bear a UDI under 21 CFR 801.45 directly marks  
316 such a device voluntarily, or before the compliance date of UDI direct marking requirements,  
317 GUDID data submission requirements applicable to UDI direct marking would also be  
318 voluntary. Please see sections III.A.6. and 7. above regarding potential impact on safety and  
319 effectiveness and the potential requirement for an additional premarket submission in  
320 conjunction with applying a UDI direct marking to a currently marketed device.  
321

322 **B. UDI Format**

323  
324 **1. Is the full UDI required to be directly marked on the device?**  
325

326 Yes. A UDI direct marking must be either identical to the UDI that appears on the label of  
327 the device, or a different UDI used to distinguish the unpackaged device from any device  
328 package containing the device (21 CFR 801.45(b)). Either way, unless excepted, the full UDI  
329 must be directly marked, including the device identifier (DI) and any required production  
330 identifiers (PI). See 21 CFR 801.40(b) and 801.45. Note that production identifiers are not

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331 required in UDIs of class I devices. 21 CFR 801.30(d). Also note that class I devices that  
332 bear a Universal Product Code (UPC) on their label and device packages are not required to  
333 comply with UDI direct marking requirements. See 21 CFR 801.40(d).

334  
335 **2. Does the UDI directly marked on the device need to be identical to**  
336 **the UDI on the device label?**

337  
338 No. Under 21 CR 801.45(b), the labeler may choose to directly mark the device with a UDI  
339 identical to the UDI that appears on the label of the device, or with a different UDI to  
340 distinguish the unpackaged device from any device package containing the device.

341  
342 **3. For a UDI direct marking, are both the plain text and AIDC forms**  
343 **required?**

344  
345 No. Unlike the UDI on labels and packages, under 21 CFR 801.45(c), when a device must  
346 bear a UDI direct marking, the UDI may be provided through either or both of the following:  
347 (1) easily readable plain-text or (2) automatic identification and data capture (AIDC)  
348 technology or any alternative technology that will provide the UDI of the device on demand.  
349 Both the plain text and the AIDC forms of the directly marked UDI should adhere to the UDI  
350 format specified by the FDA-Accredited Issuing Agency. See 21 CFR 830.20 and “UDI  
351 Formats by FDA-Accredited Issuing Agency (May 7, 2014)” ([UDI Formats](#)).

352  
353 **4. If the UDI that appears on the device label changes, must the**  
354 **directly marked UDI be replaced?**

355  
356 No. Under 21 CFR 801.45(d)(4), once a device has been marked in compliance with the UDI  
357 direct marking requirements, there is no requirement to replace the UDI direct marking even  
358 if the UDI that appears on the label changes.

359 **C. Reprocessing**

360  
361 **1. How is “intended to be used more than once” defined?**

362  
363 For the purposes of the UDI direct marking requirements, under 21 CFR 801.45, "intended to  
364 be used more than once" means intended for repeated uses on or by different patients, for  
365 example, where a device is cleared or approved and labeled for repeated uses on or by  
366 different patients.

367  
368 **2. What does FDA consider “reprocessed” for the purpose of direct**  
369 **marking?**

370  
371 Reprocessing is defined as validated processes used to render a medical device, which has  
372 been previously used or contaminated, fit for a subsequent use. See “Reprocessing Medical

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373 Devices in Health Care Settings: Validation Methods and Labeling: Guidance for Industry  
374 and Food and Drug Administration Staff” issued on March 17, 2015 ([Reprocessing](#)  
375 [Guidance](#)). Reprocessing is generally intended to remove blood, tissue, biological debris, and  
376 other contaminants and to inactivate infectious microbes so that devices are safe for the next  
377 patient.

378

379 For purposes of UDI direct marking requirements, we consider a device that is intended to be  
380 cleaned and either sterilized or disinfected before each use to be intended to be reprocessed.  
381 If a device is intended only to be cleaned between uses by different patients, this would not  
382 be considered reprocessing for the purposes of the UDI direct marking requirements. If the  
383 device is intended to be used more than once on or by the same patient, and not on or by  
384 different patients, the device does not need to be directly marked with a UDI.

385 **D. Exceptions to Direct Marking**

386

387 **1. What exceptions are there to the UDI direct marking**  
388 **requirements?**

389

390 There are four direct marking exceptions outlined in 21 CFR 801.45(d). The requirement of  
391 21 CFR 801.45(a) does not apply to any device that meets any of the following criteria:

392

- 393 1. Any type of direct marking would interfere with the safety or effectiveness of the  
394 device;
- 395 2. The device cannot be directly marked because it is not technologically feasible;
- 396 3. The device is a single use device and is subjected to additional processing and  
397 manufacturing for the purpose of an additional single use; or
- 398 4. The device has been previously marked under 21 CFR 801.45(a).

399

400 A “single use device” means a device that is intended for one use, or on a single patient  
401 during a single procedure. 21 U.S.C. 321(l). We interpret 21 CFR 801.45(d)(3) to mean that  
402 the UDI direct marking requirements do not apply to a device that the original labeler (as  
403 defined in 21 CFR 801.3) intends for one use, or use on a single patient during a single  
404 procedure, even if, subsequent to its initial use, the device is subjected to additional  
405 processing and manufacturing for the purpose of an additional single use on another patient.  
406 However, such reuse of a single use device would generally require additional clearance or  
407 approval unless 510(k)-exempt,<sup>2</sup> as well as compliance with general UDI labeling and data  
408 submission requirements by the entity performing the additional processing and  
409 manufacturing for the purpose of an additional single use. In contrast, for purposes of UDI

---

<sup>2</sup> See 21 U.S.C. 360(o) and “Medical Device User Fee and Modernization Act of 2002, Validation Data in  
Premarket Notification Submissions (510(k)s) for Reprocessed Single-Use Medical Devices”  
(<http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/GuidanceDocuments/ucm071434.htm> )  
regarding 510(k) submissions for reprocessed single-use devices.

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410 direct marking requirements under 21 CFR 801.45, a device intended for repeated use on or  
411 by different patients is “intended to be used more than once” and is thus subject to UDI direct  
412 marking requirements (see section III.C.1).

413

414 Please note that a reprocessed and/or relabeled single use device must comply with the  
415 general UDI labeling and data submission requirements. See definition of “labeler” under 21  
416 CFR 801.3 and requirements for when a device is relabeled under 21 CFR 830.60.

417

418 **2. Does a non-UDI direct marking (such as the name of the company**  
419 **or part or catalog number) on a device itself meet the UDI direct marking**  
420 **requirements?**

421

422 No. The name of the company or part/catalog number only does not meet the UDI direct  
423 marking requirements under 21 CFR 801.45. If your device design with a non-UDI direct  
424 marking has been cleared or approved, we are unlikely to find merit in a justification for an  
425 exception under 21 CFR 801.45(d)(1) that direct marking would interfere with the safety or  
426 effectiveness of the device. In addition, lack of space because non-UDI direct marking has  
427 taken up the otherwise available space for a UDI direct marking will typically not be  
428 sufficient justification for an exception under 21 CFR 801.45(d)(2) that the device cannot be  
429 directly marked because it is not technologically feasible.

430

431 **3. What is the process for making use of a 21 CFR 801.45(d)**  
432 **exception from a direct marking requirement?**

433

434 As discussed in III.A.9., under 21 CFR 801.45(e), a labeler who decides that an exception  
435 under 21 CFR 801.45(d) applies to its device must document the basis of that decision in the  
436 design history file required by 21 CFR 820.30(j). As explained in III.A.8., in your GUDID  
437 submission, you should check the box “Device Subject to Direct Marking (DM), but  
438 Exempt.”

439

440 **4. What is the process for requesting a specific alternative to direct**  
441 **marking? How do I request an exception from or alternative to the direct**  
442 **marking requirements?**

443

444 The UDI regulation at 21 CFR 801.55 outlines the process for requesting a specific  
445 alternative to any UDI requirement, including direct marking, by submitting a request to  
446 FDA. Under 21 CFR 801.55(c), FDA may grant an alternative to UDI direct marking or any  
447 other UDI labeling requirement, if we determine that:

448 (a) An alternative would provide for more accurate, precise, or rapid device  
449 identification; or

450 (b) An alternative would better ensure the safety or effectiveness of the device.

451

452 Please note that there is no reason to submit a 21 CFR 801.55 request for exception from UDI  
453 direct marking requirements if any exception under 21 CFR 801.45(d) is applicable. Requests

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454 for the current instructions on requesting an alternative may be submitted using the online  
455 form by clicking the FDA UDI Help Desk link at [www.fda.gov/udi](http://www.fda.gov/udi).

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