GHWP/WG9/PF001:2023



Global Harmonization Working Party

Towards Medical Device Harmonization

PROPOSED FINAL DOCUMENT

Title: GHWP UDI Rule
Authoring
Group: Working Group 9 UDI & Nomenclature
Date: [25 November 2023]

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		not defined.	
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2	GHWP UDI Rule
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5	Chapter I: General Provisions
6	
7	The Unique Device Identification System (UDI system) is intended to provide a single,
8	globally harmonized system to adequately identify medical devices through
9	distribution and use. It is critical to note that the maximum benefits of a UDI system
10	can only accrue if all stakeholders, from the manufacturer to healthcare providers and
11	patients and Regulators, use UDI throughout their workflow systems.
12	
13	Every medical device needs to be identified by a UDI, unless it is exempted. The
14	regulatory authority of the UDI System shall specify harmonized exemptions for
15	certain devices such as investigational devices and custom made devices from UDI
16	requirements
17	A UDI system includes a Unique Device Identifier (UDI), a UDI carrier, and a UDI
18	Database (UDID).
19	
20	 The UDI is a series of numeric or alphanumeric characters that is created
21	through a globally accepted device identification and coding standard.
22	
23	 The UDI Carrier is the means to convey the UDI by using AIDC and, if applicable,
24	its HRI.
25	Note: Carriers can include, for example, a 1D/linear bar code, a 2D/Matrix bar
26	code, or an RFID system
27	
28	 The UDID contains identifying information and other elements associated with
29	the specific medical device.
30	
31	1. The regulatory authorities that establish a UDI system are responsible for
32	establishing a standardized UDI system to meet local regulatory requirements and
33	to develop and maintain a local publicly available UDID that is capable of linking,
34	to the extent possible, to other regulatory authority UDIDs. It is recognized that
35	local specificities and regulations could impact certain aspects of UDI
36	implementation.
37	
38	Manufacturers are responsible for understanding both regulatory and issuing

39		agency/entity requirements or standards to accurately assign and place the UDI in
40		human readable and AIDC format on the label or on the device itself and on all
41		higher levels of device packaging, as appropriate. Manufacturers are also
42		responsible for the initial submission of, and updates to, the information in the
43		UDID.
44		
45		It is recommended that all stakeholders related to UDI actively use it throughout
46		their workflow systems.
47		
48	Ch	apter II: UDI
49		
50	2.	The UDI contains two parts: device identifier (UDI-DI) and production identifier
51		(UDI-PI).
52		
53		The UDI-DI is a unique numeric or alphanumeric code specific to a model of
54		medical device and that is also used as the "access key" to information stored in a
55		UDID.
56		
57		The UDI-PI is a numeric or alphanumeric code that identifies the unit of device
58		production. The different types of Production Identifier(s) include serial number,
59		lot/batch number, Software as a Medical Device (SaMD) version and
60		manufacturing and/or expiration date.
61		
62		A new UDI-DI is required whenever there is a change that could lead to
63		misidentification of the medical device and/or ambiguity in its traceability. Any
64		change of one of the following UDID data elements determines the need for a new
65		UDI-DI:
66		a.Brand Name,
67		b.Device version or model,
68		c.Clinical Size (including Volume, Length, Gauge, Diameter),
69		d.Labeled as single use,
70		e.Packaged sterile,
71		f.Need for sterilization before use,
72		g.Quantity of devices provided in a package,
73		h.Critical warnings or contraindications: e.g. containing latex or DEHP.
74		
75		A UDI-DI allocated to a particular medical device should never be reused. Devices
76		that have been withdrawn from the market and are reintroduced may use the

- original UDI-DI if they are reintroduced without any modifications or changes
 which require a new UDI-DI.
- 79

3. Manufacturers are responsible for following both regulatory and issuing
 agency/entity requirements or standards to accurately assign the UDI to the device
 itself or to the packaging level of the device so that it can be adequately identified
 through its distribution.

84

The UoU UDI-DI is an unmarked identifier assigned to an individual medical device when a UDI is not labeled on the individual device at the level of its unit of use. Its purpose is to provide a UDI-DI to identify a device used on a patient when a UDI-DI does not appear on the label of the device.

- 89
- An Issuing Agency/Entity is an organization accredited by a regulatory authority to
 operate a system for the issuance of UDIs. An Issuing Agency/Entity shall meet the
- 92 following criteria:
- 93

(a) its system for the assignment of UDIs is adequate to identify a device
 throughout its distribution and use in accordance with the requirements of the
 regulatory authority and conforms to the relevant international standards;

- 97 (b) the entity gives access to its system for the assignment of UDIs to all interested
 98 users in accordance with a single set of consistent, fair and reasonable terms and
 99 conditions;
- (c) it makes available to the regulatory authority, upon request, informationconcerning its system for the assignment of UDIs; and
- 102 (d) it meets the relevant requirements for data security of the local regulatory 103 authority.
- 104

105 Chapter III: UDI Carrier

106

 A UDI Carrier includes both AIDC and HRI formats. If there are significant constraints limiting the use of both on the label, the AIDC format shall be favored.
 No particular AIDC methods should be required by a regulatory authority. Each regulatory authority may have specific requirements for particular AIDC methods.
 The HRI format shall follow the rules of the UDI code issuing agency/entity.

- 112
- 113 Commonly used AIDC technologies in the medical device industry include 114 1D/linear bar codes, 2D/Matrix bar codes, and RFID. If linear bar codes are used,

- the UDI-DI and UDI-PI can be concatenated or non-concatenated. Where RFID is
 used, a linear or 2D bar code shall also be provided on the label.
- 117

6. The manufacturer is responsible for placing the UDI Carrier on the label or on the device itself, and on all higher levels of device packaging, not including shipping containers. The UDI Carrier should be readable during normal use and throughout intended life of the medical device.

122

123 Chapter IV: UDID

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125 7. Regulatory authorities are responsible for developing the UDID in their jurisdiction 126 based upon local policy requirements. However, locally specific data elements 127 should be kept to a minimum. The UDID should follow a globally harmonized approach so that healthcare professionals and patients will have access to a single 128 129 consistent, and complete source of information about a medical device and its key attributes. The UDID shall be accessible to the public free of charge. Each 130 131 regulatory authority may have specific requirements for data elements published 132 for public access.

- 133
- 134 8. The manufacturer is responsible for the submission of identifying information and
 135 other medical device data elements in the UDID before the product launching to
 136 the market.
- 137

138 Manufacturers should update the relevant UDID record before the product 139 launching to the market when a change is made to an element that does not 140 require a new UDI-DI.

141

142 Chapter V: Supplementary Provisions

143

9. The use of a UDI System will facilitate and simplify the documentation of medical device use in various patient records including traditional as well as electronic health records and registries. A UDI system should also enable linkages of medical device information across various systems and across geographies. These applications of UDI could help to identify medical device problems and enhance data analysis.

150

151 The global use of a UDI will facilitate traceability throughout distribution. In order 152 to achieve traceability, it is necessary to involve all stakeholders in the capture and 153 recording of the UDI (UDI-DI + UDI-PI) throughout distribution and use.

154	
155	
156	10. The definition of the following terms in this rule:
157	Automatic Identification and Data Capture (AIDC)
158	A technology used to automatically capture data. AIDC technologies include bar
159	codes, smart cards, biometrics and RFID.
160	
161	Human Readable Interpretation (HRI)
162	Human Readable Interpretation is a legible interpretation of the data characters
163	encoded in the UDI Carrier.
164	
165	Shipping containers
166	Shipping container is a container where the traceability is controlled by a process
167	specific to logistics systems.
168	
169	11. A risk-based approach is essential to facilitate an effective implementation of UDI
170	system. Implementation should be phased in over a period of years based on
171	product risk classes, starting with the highest risk class, to reduce the burden of
172	implementation.
173	
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175	
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177 178 179 180 181 182 183 184	Medical Devices IMDRF/UDI WG/N48 FINAL: 2019- Unique Device Identification system (UDI system) Application Guide US, EU, and China, UDI rule Abbreviations Automatic Identification and Data Capture (AIDC)
177 178 179 180 181 182 183 184 185	Medical Devices IMDRF/UDI WG/N48 FINAL: 2019- Unique Device Identification system (UDI system) Application Guide US, EU, and China, UDI rule Abbreviations Automatic Identification and Data Capture (AIDC) Device Identifier (UDI-DI)
177 178 179 180 181 182 183 184 185 186	Medical Devices IMDRF/UDI WG/N48 FINAL: 2019- Unique Device Identification system (UDI system) Application Guide US, EU, and China, UDI rule Abbreviations Automatic Identification and Data Capture (AIDC) Device Identifier (UDI-DI) Human Readable Interpretation (HRI)
177 178 179 180 181 182 183 184 185 186 187	Medical Devices IMDRF/UDI WG/N48 FINAL: 2019- Unique Device Identification system (UDI system) Application Guide US, EU, and China, UDI rule Abbreviations Automatic Identification and Data Capture (AIDC) Device Identifier (UDI-DI) Human Readable Interpretation (HRI) Production Identifier (UDI-PI)
177 178 179 180 181 182 183 184 185 186	Medical Devices IMDRF/UDI WG/N48 FINAL: 2019- Unique Device Identification system (UDI system) Application Guide US, EU, and China, UDI rule Abbreviations Automatic Identification and Data Capture (AIDC) Device Identifier (UDI-DI) Human Readable Interpretation (HRI)

190	Unique Device Identifier (UDI)	
191	Unit of Use (UoU)	
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194	END OF DOCUMENT	
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