

Management of Legacy Devices

MDR EUDAMED

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1 INTRODUCTION

This document contains the details of how Legacy Devices will be identified in EUDAMED and the way the different Unique Device Identifiers for the Legacy Devices will be generated/assigned.

2 GENERAL CONSIDERATIONS

Legacy Devices are defined as Medical Devices, Active Implantable Medical Devices and In Vitro Diagnostic Medical Devices that are covered by a valid certificate issued in accordance with Directive 93/42/EEC, Directive 90/385/EEC or Directive 98/79/EC and that continue to be placed on the market after the date of application of Regulation (EU) 2017/745 (MDR) or Regulation 2017/746 (IVDR).

Guidance on registration of legacy devices in EUDAMED is provided in the "MDCG 2019-5 "Registration of legacy devices in EUDAMED April 2019" document (https://ec.europa.eu/docsroom/documents/34922).

Manufacturers will have the possibility to register any of their Legacy Devices in EUDAMED. As explained in the guidance document, their registration will be mandatory in case a serious incident occurs or there is a field safety corrective action to apply, which requires registration as soon as possible and at least before a follow up or final vigilance report is submitted.

Furthermore, if 18 months after the date of application of the MDR or IVDR (or 24 months after the date of publication of the notice referred to in Article 34(3) if EUDAMED is not fully functional before the date of application of the MDR), the equivalent device is not made compliant and registered as a MDR or IVDR device, the Legacy Device must be registered in EUDAMED within this time period.

Legacy Devices with the risk class I that are not sterile and/or with a measuring function under the Directives cannot be considered as Legacy Devices because they do not require a certificate issued by a Notified Body. These must be registered only as Regulation Devices in EUDAMED within the 18 months after the date of application (or 24 months after the date of publication of the notice referred to in Article 34(3) if EUDAMED is not fully functional before the date of application of the MDR).

3 IDENTIFICATION DETAILS FOR LEGACY DEVICES

Legacy Devices are subject to the MDR or IVDR registration requirements with some exceptions such as the assignment of a Basic UDI-DI and a UDI-DI.

Even if the assignment of a Basic UDI-DI and UDI-DI is not required for a Legacy Device, in order to keep the same standard structure and identification elements for all Devices registered in EUDAMED, an identification element EUDAMED DI (the equivalent of the Basic UDI-DI) will be required, and a EUDAMED ID (in case no UDI-DI has been assigned) will be generated from the EUDAMED DI.

Therefore, a Basic UDI-DI will never be applicable and never be assigned to a Legacy Device, only EUDAMED DI. On the other hand, a UDI-DI can be used to identify a Legacy Device in EUDAMED.

Moreover, only one device identifier will be assigned to a Legacy Device, either a UDI-DI (where the EUDAMED DI is automatically generated) or a EUDAMED DI (where the EUDAMED ID is automatically generated).

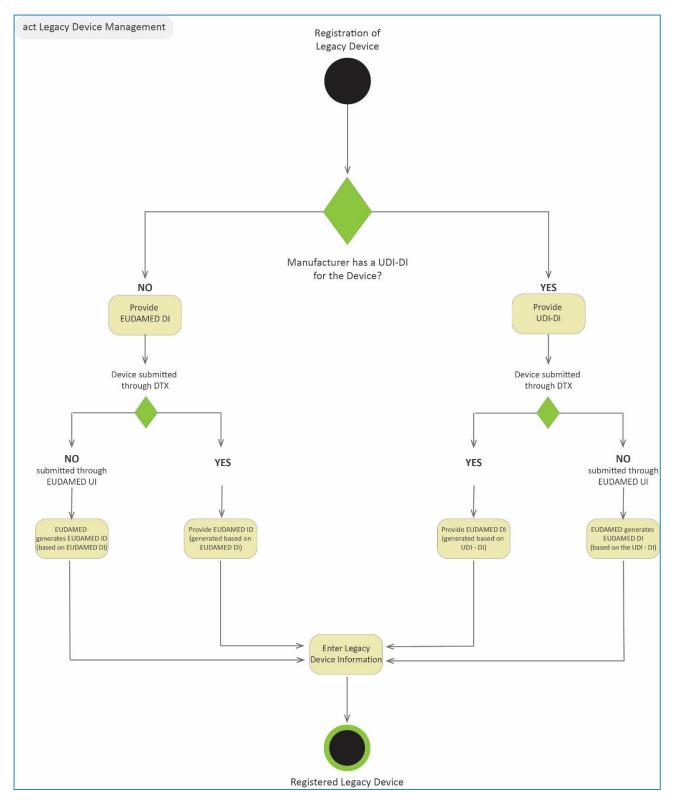


Figure 1 – Management of unique device identification elements for Legacy Devices

Case 1: Generation of identification details for a Legacy Device when a UDI-DI already exists

In case the manufacturer has already a UDI-DI assigned to a Legacy Device, they will be able to use it as a device identifier for the Legacy Device. In this case, the EUDAMED DI is automatically generated from the UDI-DI value.

The Legacy Device will therefore have the following identification elements: a EUDAMED DI (generated based on the UDI-DI) and a UDI-DI (assigned by the manufacturer).

In order to generate the EUDAMED DI identification element from the UDI-DI provided, EUDAMED will use a standard format, placing the characters "B-" in front of the UDI-DI provided

Example:

Provided UDI-DI: M991CVS12130NES2

Generated EUDAMED DI: B-M991CVS12130NES2

Case 2: Generation of identification details for a Legacy Device when a UDI-DI does not exist

In case the manufacturer does not have a UDI-DI assigned for a Legacy Device, the manufacturer will have to assign a EUDAMED II and EUDAMED ID.

The EUDAMED DI will have a strict format, starting with 'B-' as a prefix and continuing with a set of characters – as defined in Annex 1.

The EUDAMED ID will have the same format and value as EUDAMED DI except the first prefix character. It will start with 'D' instead of 'B'.

Example:

EUDAMED DI: B-BEMF00000106CR023335WF

EUDAMED ID: D-BEMF00000106CR023335WF

4 LINKING THE REGULATION DEVICES TO LEGACY DEVICES

When the equivalent of a Legacy Device becomes a compliant Regulation Device (having fulfilled all MDR or IVDR requirements to be covered by the required MDR or IVDR certificate(s)), a new Regulation Device shall be registered in EUDAMED in accordance with the MDR/IVDR requirements.

EUDAMED will allow linking of the Regulation Device with the Legacy Device and perform this linking automatically where the same UDI-DI has been assigned to both the Legacy Device and the Regulation Device. The link will be made at the level of the UDI-DI.

If the Regulation Device is exactly the same as the Legacy Device (except that it is MDR or IVDR compliant), the Regulation Device may have the same UDI-DI as the Legacy Device. In this case, the link between the two devices will be made automatically; otherwise, the manufacturer can create the link manually by providing the Legacy Device identifier.

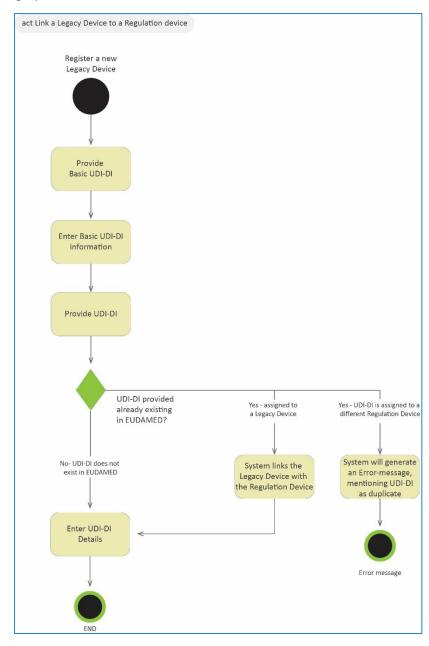


Figure 2 - Registration of a Regulation Device

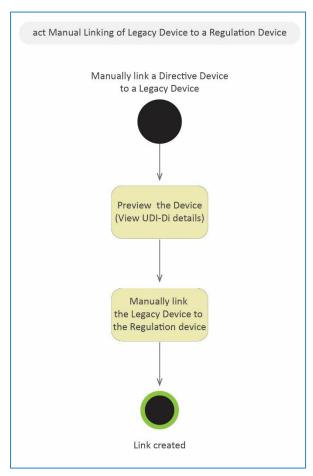


Figure 3 - Manual Linking of a Legacy Device to a Regulation Device

ANNEX 1: FORMAT OF THE *EUDAMED DI* IDENTIFICATION NUMBER (WHEN IT IS NOT GENERATED FROM UDI-DI)

In order to keep a consistency in the formatting structure of the EUDAMED DI and the Basic UDI-DI structures used by Issuing Entities, EUDAMED proposes a structure similar to the Global Model Number (GMN).

Key characteristics of the format structure:

- 25 characters maximum length of the identifier (including the prefix and check digits);
- allows the use of characters inside the code permits the use of a subset of characters already implemented in other formatting structures by other entities;
- implements a two key check-digit;
- Prefix (B-) implemented in order to create a easily recognisable format for EUDAMED DI



Note: Because the format for generating EUDAMED DI codes does not necessarily include the unique identification number of the manufacturer provided by EUDAMED (i.e. the manufacturer's SRN), there is a risk that the same code is assigned by two different manufacturers for different Devices.

As best practice, the unique identifier assigned by the manufacturer should include its SRN (described below under 'Format for EUDAMED DI code') for the generation of EUDAMED DI.

In order to prevent registration of duplicates, EUDAMED DI together with the Issuing Entity (EUDAMED DI and EUDAMED ID will have by default the issuing entity "EUDAMED") are checked for uniqueness. In the case where a manufacturer has already registered a Legacy Device with a EUDAMED DI code, any other Legacy Device to which the same EUDAMED DI code would have been assigned will be refused for registration.

Format of the EUDAMED DI code

EUDAMED DI Format												
Prefix	Manufacturer`s unique reference	Check Characters										
В-	C1Cn (n<=21)	Cn+1 Cn+2										
B-' - Prefix	defined for EUDAMED DI (required by default) - not taken ir	nto account into the Check-digit calculation										
C - characte	ers used in the Code generation											
	C1-Cn - Unique identifier assigned by the Manufacturer for th	ne										
	Device. Cannot go above 21. Optionally can include in the											
k	peginning the SRN of the Manufacturer (without the '-'											
c	characters): C1C13;											
(Cn+1 and Cn+2 - Check Digit characters;											

Calculation Steps

Step 1: Assigning a reference value

For each character inside the Code, except the first 2 characters composing the prefix ('B-'), identify the assigned value in <u>Table 1 – Reference value</u>;

Step 2: Assigning a prime number weight for each element

Assign a prime number weight – starting with the right most non-check digit character and continuing until the first character in the Code;

Note: The first 21 prime numbers: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73

Step 3: Determine the total value

Multiply the Reference value assigned in Step 1 and the weight assigned in Step 2 for each character and calculate the total of the values obtained;

Step 4: Apply Modulo 1021 to the total value obtained

Perform MOD (1021) operation on the sum obtained in Step 4. The value obtained will be used for further calculations of the Check-digit number – Ck.

Ck= Mod (1021) Total Value (value of Step 3);

Step 5: Determine the value of the first Check-digit

The Assigned value for the first Check-Digit is obtained by obtaining the integer value of the Check-digit number (value Step 4) split by 32: Assigned value= Int(Ck/32);

The Assigned value obtained will be used in Table 2 in order to obtain the corresponding Character set for Check-Digit C(n+1);

Step 6: Determine the value of the second Check-digit

The Assigned value for the second Check-Digit is obtained by applying Modulo 32 to the Check-digit number (value Step 4): Assigned value = Mod(32)Ck;

The Assigned value obtained will be used in Table 2 in order to obtain the corresponding Character set for Check-Digit C(n+2);

Reference Table 1 – Reference values for the characters used in the Code

Character set	Assigned Value
!	0
"	1
%	2
&	3
,	4
(5
)	6
*	7
+	8
,	9
-	10
	11
/	12
0	13
1	14
2	15
3	16
4	17
5	18
6	19
7	20
8	21
9	22
:	23
;	24
<	25
=	26
>	27
,	28
Α	29

Character set	Assigned Value
В	30
С	31
D	32
E	33
F	34
G	35
Н	36
I	37
J	38
K	39
L	40
M	41
N	42
0	43
Р	44
Q	45
R	46
S	47
Т	48
U	49
V	50
W	51
Χ	52
Υ	53
Z	54
_	55
a	56
b	57
С	58
d	59

Character	Assigned
set	Value
е	60
f	61
g	62
h	63
i	64
j	65
k	66
I	67
m	68
n	69
0	70
р	71
q	72
r	73
S	74
t	75
u	76
V	77
W	78
X	79
У	80
Z	81

Reference Table 2 — Reference value for Check-digit calculations

Character set	Assigned Value
2	0
3	1
4	2
5	3
6	4
7	5
8	6
9	7
Α	8
С	9
D	10

Character set	Assigned Value
E	11
F	12
G	13
Н	14
1	15
J	16
K	17
L	18
М	19
N	20
Р	21

Character set	Assigned Value
Q	22
R	23
S	24
Ţ	25
U	26
V	27
W	28
Χ	29
Υ	30
Z	31

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Calculation examples

Example 1

Manufacturer SRN: BE- MF-000000106



Note: Providing the SRN is optional, but is recommended. If providing the SRN the separation '-' characters shall not be included (in order to optimise the number of characters available for the manufacturer to assign a Device identifier);

Manufacturer Code provided for the product: CR023335

EUDAMED DI: **B-BEMF00000106CR023335WF** EUDAMED ID: **D-BEMF00000106CR023335WF**

EUDAMED DI generation

	Pre	fix		Unique ID Provided by the Manufacturer Che									Chec	k-Digit											
	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C23	C24	C25
EUDAMED DI obtained value	В	-	В	E	М	F	0	0	0	0	0	0	1	0	6	С	R	0	2	3	3	3	5	W	F
Assigned reference Value (according Table																									
1)			30	33	41	34	13	13	13	13	13	13	14	13	19	31	46	13	15	16	16	16	18		
Assigned weight			73	71	67	61	59	53	47	43	41	37	31	29	23	19	17	13	11	7	5	3	2		
Total (Assigned Reference Value and																									
Assigned weight)			2190	2343	2747	2074	767	689	611	559	533	481	434	377	437	589	782	169	165	112	80	48	36		
Total value	16223																								
CK (Mod (Total Value); (1021))	908																								
Assigned Value (C24) = Integer value of (CK																									
/ 32)	28		Correspon	nding Char	acter (Table	e 2) = W																			
Assigned value (C25) = Mod(CK; 32)	12		Correspon	nding Char	acter (Table	e 2) = F																			

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Example 2

Manufacturer Code provided for the product: CR0233

EUDAMED DI: B-CR023368 EUDAMED ID: D-CR023368

EUDAMED DI generation

	Pr	efix		Check-Digit						
	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
	В	-	С	R	0	2	3	3	6	8
Assigned reference Value (according Table 1)			31	46	13	15	16	16		
Assigned weight			13	11	7	5	3	2		
Total (Assigned Reference Value and Assigned										
weight)			403	506	91	75	48	32		
Total value	1155									
CK (Mod (Total Value); (1021))	134									
Assigned Value (C9) = Integer value of (CK / 32)	4		Corresponding Character (Table 2) = 6							
Assigned value (C10) = Mod(CK; 32)	6		Correspor	nding Chara	acter (Table	e 2) = 8				