

GS1 DIY Self-Learn Materials

Unique Device Identification (UDI)

GS1 Malaysia Berhad



Preface



- This DIY Self Learn Material will provide insights into:
 - What is UDI
 - How GS1 can help your business to **meet UDI requirements**
 - The **requirements** to list products in GUDID and EUDAMED
 - Details about **Basic UDI-DI**
 - Other cross-border UDI regulations



The Global Language of Business

Unique Device Identifier

- What is UDI?
- US FDA UDI
- EU UDI







What is UDI?

Identifier/code on device label and packaging or, on the device itself.

UDI = Device Identifier (DI) + Production Identifier/s (PI)

- DI (static) specific to a device version or model.
- PI (dynamic) one or more currently used information for control/production identifiers,
 e.g. lot/batch number, serial number, manufacturing date, expiration date.

The UDI must appear on the label in a human readable format, as well as in a manner that can be read by automatic identification and data capture (AIDC) technology.







When should you allocate a new UDI:

- Change to quantity/quantity of devices provided in a package
- Change of Brand/Trade Name
- New Version/Model
- New Issuing Agency
- Change of Clinically Relevant Size
- Labeled as Single Use
- Labeled as containing natural rubber latex
- Add/Remove MRI safety information
- Device Packaged as Sterile
- The device requires sterilization before use



UDI & GS1 Standards



UDI Unique Device Identification ...<u>is enabled</u> by **GS1** Standards!!

...GS1 Global is the first accredited UDI issuing agency by the US FDA and EU.

UDI information is submitted to FDA's Global Unique Device Identification Database (GUDID) and EU's European Database on Medical Devices (EUDAMED)

NOTE: While GS1 Global is the issuing agency, GS1 MOs are referred to as agents to issue UDI for subscriber members.







Jurisdiction	EU	USA	China	Saudi Arabia	Taiwan	South Korea	Australia	Brazil
	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1
Danis and a	HIBCC	HIBCC		HIBCC	HIBCC	HIBCC	HIBCC	HIBCC
Designated	ICCBBA	ICCBBA		ICCBBA	ICCBBA	ICCBBA	ICCBBA	
issuing entities	IFA GmbH							
entities			ZIIOT					
			Ali Health					

All listed jurisdictions recognise GS1 as an issuing agency!



UDI in GS1 Terms



•	

Unique Device Identification

DI

Device Identifier (DI)

PI

Production Identifier (PI)

(if applicable)

GS1 Standards

Product Identification

GTIN

Global Trade Item Number

AI

Application Identifier (AI)

- Expiration Date AI(17) e.g. 141120
- Lot/Batch AI(10) e.g. 1234AB
- Serial Number Al(21) e.g. 12345XYZ

Production Identifier data will vary by medical device type and manufacturer current practice.

DI + PI = UDI

GTIN or GTIN + AI(s) = UDI



More than 85% of products in U.S. FDA GUDID carry GS1 as UDI primary DI



US FDA GUDID Analysis				
Total Number of Unique Primary Devices Currently Listed in GUDID		1,335,933		
Total Number of Devices by Issuing	GS1	1,142,813	85.5%	
Agency	HIBCC	192,968	14.5%	
(DI from agency either Primary or Secondary)	NDC\NHRIC ICCBBA	97 55	0.007%	

HIBCC

- The Health Industry Business Communications Council®

ICCBBA

- International Council for Commonality in Blood Banking Automation

NDC - National Drug Code



UDI Label Requirements





GS1 Healthcare Products

FMD (Fictitious Medical Device)

Manufacturer:

GS1 Global Office Avenue Louise 326 BE 1050 Brussels +32 2 788 7800



2014-11-20

LOT 7654321D



(01) 09504000059118

(17) 141120 (10) 7654321D

(21) 10987654d321

Non-HRI Text

Information formatted for normal human reading

HRI (Human Readable Interpretation)

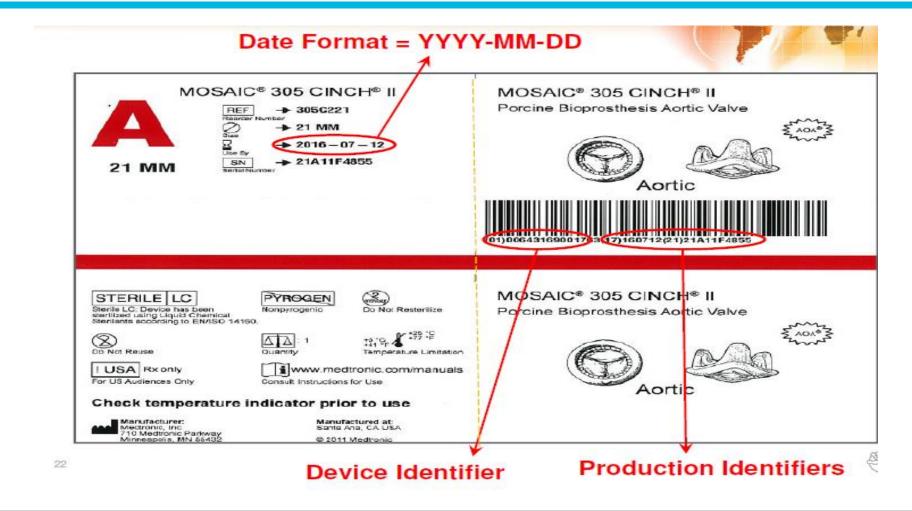
Information formatted for machine reading (numbers at the side to show what's encoded)

Note: Both information must match!



Example: UDI Application







Rules applicable to the use of GS1 System for UDI



- Usage of GS1 prefixes for UDI will be reported to FDA and other regulators by GS1 every year.
- Should deficiencies be found, a member will be informed and must correct the
 deficiencies within a specific time period from when they were informed,
 known as the Correction Period.
- Upon expiry of the Correction Period, the local GS1 will attempt to meet and resolve any issues with the member after the expiry. If corrections are not made, it will be considered as a repeated or deliberate misuse of GS1 Standards related to UDI.
- GS1 Malaysia can and will revoke the GS1 Membership of any member who
 does not correct the issue or provide a suitable reason for the delay. All
 revocations will be informed to GS1 Global, FDA and other regulation bodies.



Rules applicable to the use of GS1 System for UDI



- Examples of Deficiencies:
 - Wrong GTIN recorded
 - Wrong GCP recorded
 - Incorrect Product/Company Details
 - Changes in Company Status and contact information not updated with GS1
 - Missing Product/Company Details
 - GS1 Membership not active







Example of an actual report sent to GS1 Malaysia from GS1 Global when <u>discrepancies</u> are found

companyName	gs1_prefix	GCP	Line	Data	total_record
B*****Y (M) SDN. BHD.	955		А	(M) Sdn Bhd Kepong Malaysia	1
B******Y (M) SDN. BHD.	955		В	Primary 31-Jul-2017:31-Jul-2017 I/I	1
D****-**D (MALAYSIA) SDN. BHD.	955		A	(Malaysia) Sdn Bhd Kota Damansara Malaysia	79
D****-**D (MALAYSIA) SDN. BHD.	955		В	Primary 0955 04-Nov-2016:17-Dec-2018 I/N	79
I** A*** P****C SDN. BHD.	955	no match	В	Primary 0955 195552 29-Mar-2019:21-Aug-2019 I/I	22
S******* O*****X SDN. BHD.	955	no match	В	Primary 0955 10-Jun-2019:10-Jun-2019 I/I	53
T*****X INC	955		A%	34600 Kamunting Malaysia	23
T*****X INC	955		В	Primary 0955 :19555 16-Sep-2016:16-Sep-2016 I/I	23
T*****X INC	955		С	Company name does not match GS1 licensee name, GCP 9555	23



GS1 Standards used in EU UDI Regulations



- The EU Medical Device Regulation (MDR) & IN-vitro Diagnostic Regulation (IVDR) will use GS1 Standards & Keys to support patient safety & supply chain security.
- This adoption was finalised on 5th April 2017 and published on 5th May 2017.
 Actual implementation will begin in 2020 for MDR and 2022 for IVDR.
- GS1 was designated as an UDI issuing agency by the European Commission in 7th June 2019. Submission of product data is to be sent to EUDAMED (European Database on Medical Devices), to be launched on May 2024.
- Manufacturers will need to include the Basic UDI-DI or Global Model Number (GMN) in their technical documentation and during their submission to EUDAMED.

https://ec.europa.eu/health/sites/default/files/md_eudamed/docs/md_eudamed_udidevices-user-guide_en.pdf



EU UDI in GS1 Terms



UDI regulatory requirements	GS1 Standards
Basic UDI-DI « New » level of identification in the EU	GMN (Global Model Number) No Application Identifier (AI) for regulated medical devices
UDI-DI *	GTIN *
Device Identifier (DI)	Global Trade Item Number
Production Identifier (PI) (if applicable)	AI Application Identifier (AI) Expiration date AI(17) - e.g. 141120 Batch – lot AI(10) - e.g. 1234AB Serial number AI(21) - e.g. 12345XYZ Manufacture date AI(11) - e.g. 250717
Production Identifier data Will Vary by medical	device type and manujacturer current practice.
UDI-DI + UDI-PI = UDI	GTIN or GTIN + AI(s) = UDI

^{*} The HRI Format shall follow the rules of the UDI Issuing Entity



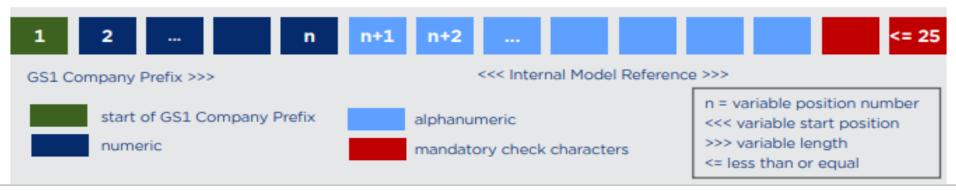
What is Basic UDI-DI?



In compliance with European Union guidelines for UDI-DI issued on June 2019, a new identifier; the Basic UDI-DI, must be included in any submission of regulated healthcare medical devices under the EU Medical Device Regulation (MDR) and EU In-Vitro Device Regulation (IVDR) to EUDAMED (EU's UDI repository).

To express the Basic UDI-DI in GS1 Terms, the GS1 Global Model Number, or GMN is used.

Composition of the GMN (Basic UDI-DI)





How to assign a Basic UDI-DI



- How is the Basic UDI-DI / GMN assigned?
 - > A GMN is used to **identify product categories or models**, for example:
 - A hip implant from a medical device company is given a GMN.
 - That model of implant may have different variants (size, gender, etc.), but because they all share the same base/design, therefore they carry the same GMN.
 - E.g. Hip implant for men different colors or sizes, same GMN.
 - If the base is different i.e. a different model, you must assign a new GMN.
 - E.g. Hip implant for men and for women, different base or mold to make, different GMN.



Other Cross-Border UDI Regulations



- China Medical device products must labelled/identified with GS1 unique identifiers and must submit their product information for registration and upload into the National Medical Products Administration's (NMPA) Database. (https://udi.nmpa.gov.cn/)
- South Korea Medical products traded in South Korea must be registered in the Integrated Medical Device Information System (IMDIS), as per Ministry of Food and Drug Safety (MFDS) notification No. 2020-29.
- UAE The Dubai Health Authority has announced that they will be relying on GS1 UAE's BrandSync Platform for product information on all existing and new products supplied to Dubai Health Authority, such as medical devices traded in the UAE.



Want to learn how to generate GMN and more?



Attend GS1 Malaysia's Capacity Building & Implementation Program to find out more!



Effective Implementation of GS1 Standards and Keys – FREE to attend!





Effective Implementation of GS1 Standards & Keys

Date	Time	Highlights
Monday to Friday *Subject to change	3.00 PM - 4.00 PM	 Learn how to assign GS1 barcode numbers. Upload your product information to our online repository for visibility & authenticity. Why an active GS1 Membership is important for your Business.

JOIN US NOW ON ZOOM!





Migration to "Data-Rich 2D" Initiative



Date

Every WED

9.00AM

_

10.00AM

*Subject to change



Key Learnings:

- Learn about how GS1 supports the global migration towards the 2D Data matrix for greater product visibility, traceability and authentication
- Case studies about successful 2D barcode usage & implementation in Healthcare and Retail around the world.

JOIN US NOW VIA ZOOM!





Migration to "Data-Rich 2D" Zoom Link: https://us06web.zoom.us/j/82513900764



Verified by GS1 – Product Databank Support & Services





Verified by GS1 - Product Databank Support & Services

Date	Time	Highlights
Every Thursday of the Month *Subject to change	11.00 AM - 11.30 AM	 WHAT is VbG-PDSS? WHY is VbG-PDSS so Important? The Services & Platforms Managed by VbG-PDSS

VbG-PDSS Zoom Link:

https://us06web.zoo m.us/j/89770665451

JOIN US NOW ON ZOOM!





GS1 Industry Focus Forums





Datamatrix

GS1 Malaysia Industry Focus Forums

TOPIC 1	TOPIC 2	TOPIC 3
Supply Chain Optimisation and Regulatory	Comply with Global Unique Device Identification (UDI)	The Importance of GS1 Global Location Number (GLN)
Fulfilment using Global Location Number (GLN) and	Regulation & Directive of Healthcare using GS1 Standards	Key Learnings:
GS1 Services Key Learnings: Comply with Retail Merchandising Requirements	Key Learnings: • Achieve compliance with international directives and country- specific regulations on medical devices and pharmaceutical products	Comply with international directives and country-specific regulations on location and entity identification such as the Russian certificate of conformity for all products
Fulfill Global Regulatory Compliance Track & Trace using the GS1 2D	 Fulfilling regulatory compliance required by US FDA GUDID, EU EUDAMED, China NMPA, UAE 	originating outside of EAEU and the use of GLN by NPRA-MOH for COVID-19 vaccine track and trace.

BrandSync, and many more.

Write to databank@gs1my.org to book your session!

*Chargeable: 1-5 people - RM 500 6-10 people - RM 1000



In-House Business Consultation



Need a special tailor-made In-House Business Consultation session? GS1 Malaysia can provide advisory support for you to meet your specific needs.

Each session can be half-day or full day.

Scan here for the Fee Structure:





Official GS1 Communications Channels

Official GS1 Malaysia WhatsApp

Official GS1 Malaysia Emails

+6014-3933 228

(Membership, Services & Support)

+6011-1616 8228

(Membership, Services & Support)

+6016-2455 228

(Strictly for Payment Only)

+6012-2722 646

(Strictly for Payment Only)

Official GS1 Malaysia Land Line & Fax Line

Land: +603-6286 7200

Fax: +603-6276 1042

gs1malaysia@gs1my.org

membership@gs1my.org

payment@gs1my.org

gs1mymembership@googlegroups.co m

Official GS1 Malaysia Website

www.gs1my.org

