



Training on GS1 Standards (Bar Codes & eCom) GS1 HUG Basics

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The global language of business

www.gs1.org



GS1 *FUN*damentals

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What I will to cover today



- 1) GS1 Identification Keys
 - GTIN & Attribute Data
- 2) GS1 Bar Codes
 - EAN/UPC, GS1-128, RSS & Composite, Data Matrix, ...
- 3) GS1 eCom
- 4) *Where to get more info*



1) GS1's Brand Architecture



The global language of business

OVERALL BENEFIT: Improving efficiency & visibility in supply and demand chains

GS1 SOLUTIONS & SERVICES USING GS1 STANDARDS

Solutions: POS / Inventory Management / Asset Management / Collaborative Planning / Traceability
Services: Global (GSMP, GEPIR, Global Registry, Training and Accreditation) & Local (e.g. Certification, Implementation, Training)

System - Integrated system of standards



Global standards for automatic identification

Rapid and accurate, item, asset or location identification



Global standards for electronic business messaging

Rapid, efficient & accurate business data exchange



The environment for global data synchronisation

Standardised, reliable data for effective business transactions



Powered by GS1

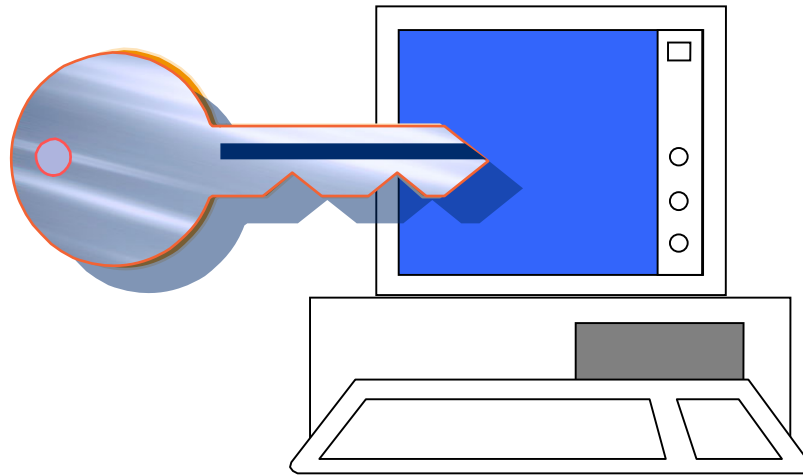
Global standards for RFID-based identification

More accurate, immediate and cost-effective visibility of information

GS1 Identification Keys (e.g. GTIN, GLN, SSCC, GRAI, GIAI, GSRN, EPC) & Attribute Data (e.g. Best Before Date)



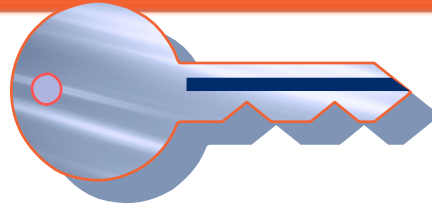
GS1 Identification Keys



GS1 Identification Keys provide access computer files



GS1 Identification Keys are:



- **Unique:** every variant of an item is allocated a separate unique number
- **Non-significant:** they identify an item but contain no information about it
- **International:** GS1 identification keys are unique across all countries and all sectors
- **Secure:** GS1 identification keys are fixed length, numeric and include a standard check digit

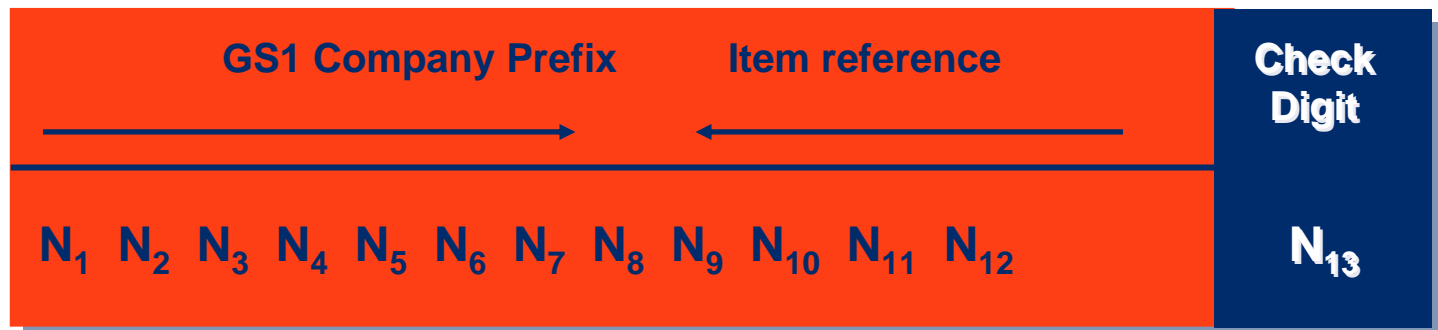


Global Trade Item Number (GTIN)

GTIN: The GS1 Identification Key for:

- Any item (product or service) upon which there is a need to retrieve pre-defined information and that may be **priced or ordered or invoiced** at any point in the supply chain

GTIN-13 data structure:



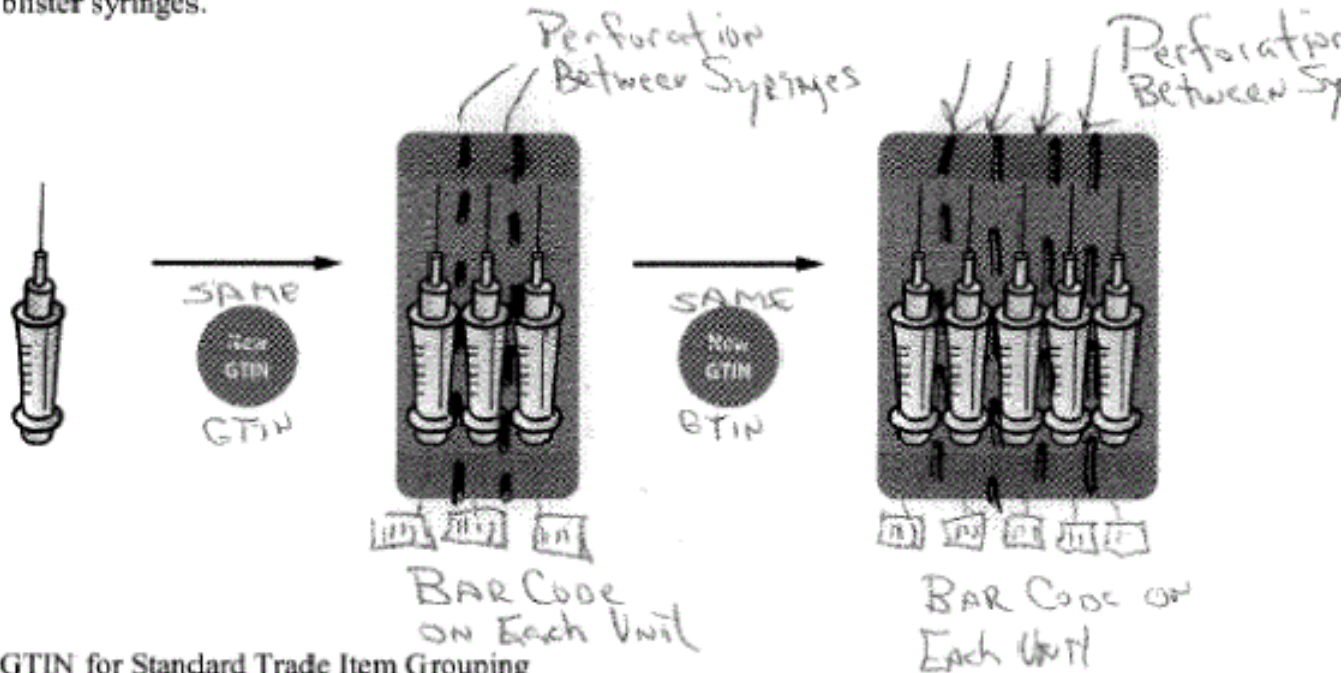
- We took this...

DIFFERENT QUANTITIES / Perforated Blister/GTIN on Each Blister Cell

Type of Change to Trade Item

Grouping of the same item containing different quantities

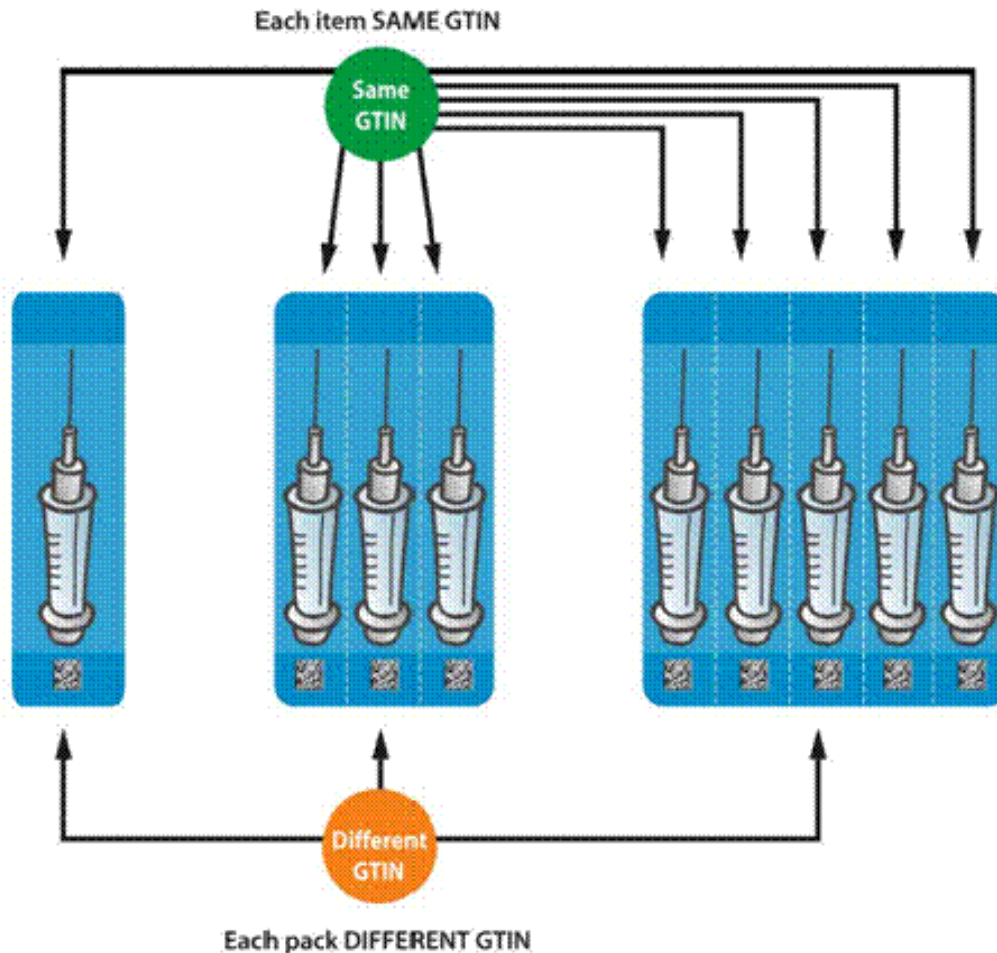
Example: A single item- loose syringe, a multi-pack of 3 blister syringes, and also a 5 blister syringes.



GTIN for Standard Trade Item Grouping
(Picture of case with New GTIN bug)

GTIN Allocation Rules for Healthcare

- and turned it into this:





GTIN Allocation Rules for Healthcare

- Provides
 - A Simple and easy to use worldwide guideline
- GTIN also enables the addition of Attribute Data like:
 - Batch Number
 - Expiration Date
 - Serial Number

How ?

Using GS1 Application Identifiers



What is a GS1 Application Identifier (AI)?

- **AIs** are prefixes defining data field(s) that follow and indicate their format
- Example: **AI (21)** means "**serial number**" with a alphanumeric format, variable length up to twenty characters *an..20*





More information on GTIN?

www.gs1.org

~ for your local MO ~

GTIN分配规则主页 >

GTIN分配规则主页

- GTIN分配原则概览
- 最佳应用
- 搜索GTIN 规则
- 免责声明
- 相关链接

中文

Change language

GTIN 分配规则

全球贸易项目代码，GTIN (Global Trade Item Number) 为任一交易产品（如在产品定价、订购、开发票等业务过程中）提供全球供应链标识代码解决方案。

GTIN 是许多公司关键性业务（如POS扫描系统以及GDSN）的基础。采用相同的分配规则，会降低整个供应链成本。

本站点列出了涉及GTIN代码变化的常见的产品变更。

如需更多信息，请与 中国物品编码中心 (GS1 China) 联系。

View the GTIN Allocation Rules Overview

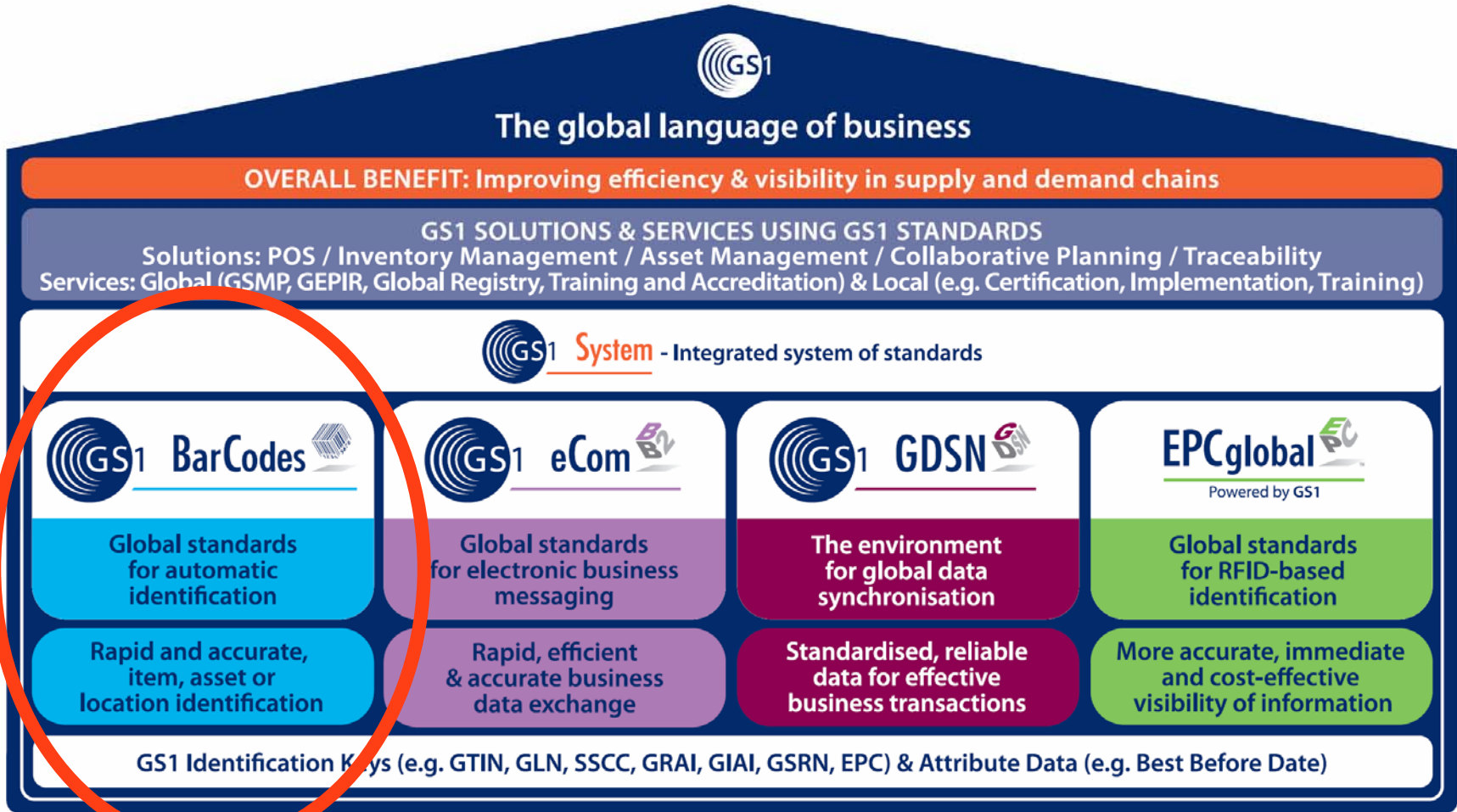
注：所述目的是为了全球通用。仅当地法律法规有其他强制要求时例外。



下载 GTIN 指南手册



2) GS1's Brand Architecture





The only GS1 Bar Code your boss needs to know



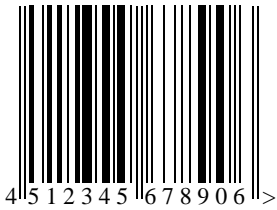
- GS1 Bar Codes change lives for the better
 - Contribute to improved Patient Safety
 - Help Deliver Logistics Efficiency
 - Enable Traceability & Authentication systems



GS1 Bar Codes

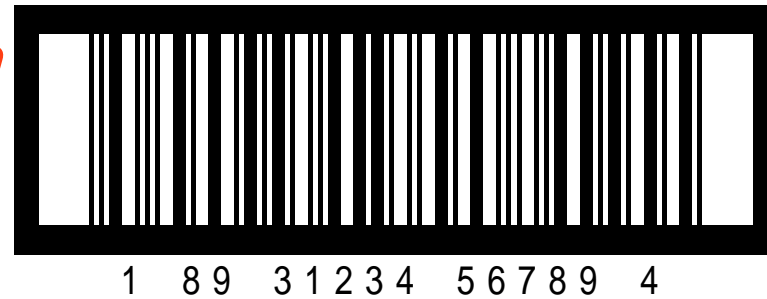


Global standards for automatic identification
Rapid and accurate item, asset or location identification



EAN/UPC – GTIN only (*main usage Retail Items*)

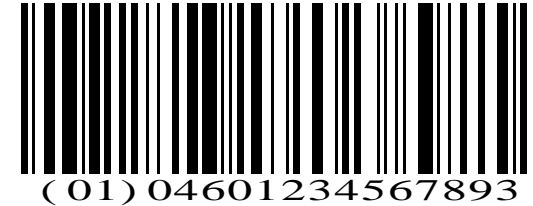
ITF-14 – GTIN only (*main usage Outer Cases*)





GS1 Bar Codes *cont.*

GS1-128 – GTIN and all GS1
Application Identifiers



RSS & Composite – GTIN and all
GS1 Application Identifiers

Data Matrix – GTIN and all GS1
Application Identifiers



*You may ask - In Healthcare
which Bar Code Symbol, with
what data, where & why?*

Provide a uniform and global approach to Standards Management.

Methodology for developing the next generation of supply chain standards

- Standards based on global consensus
- Responsive and USER-DRIVEN

ONLY methodology for maintaining the GS1 System Standards.





GS1 BarCodes

Global standards for automatic identification
Rapid and accurate item identification



Example GS1-128 Bar Code:



AI

Serial Number





More information on GS1 Bar Codes?

www.gs1.org

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Home > Products & Solutions> GS1 BarCodes & ID Keys

GS1 BarCodes

- Overview
- Technical
- Implementation
- Support
- Training



GS1 BarCodes and ID Keys

The BarCodes and GS1 Identification System have provided benefits to consumers around the world for over thirty years.

This area of our Web site explores how they have changed our world for the better, and how the application of GS1 BarCode



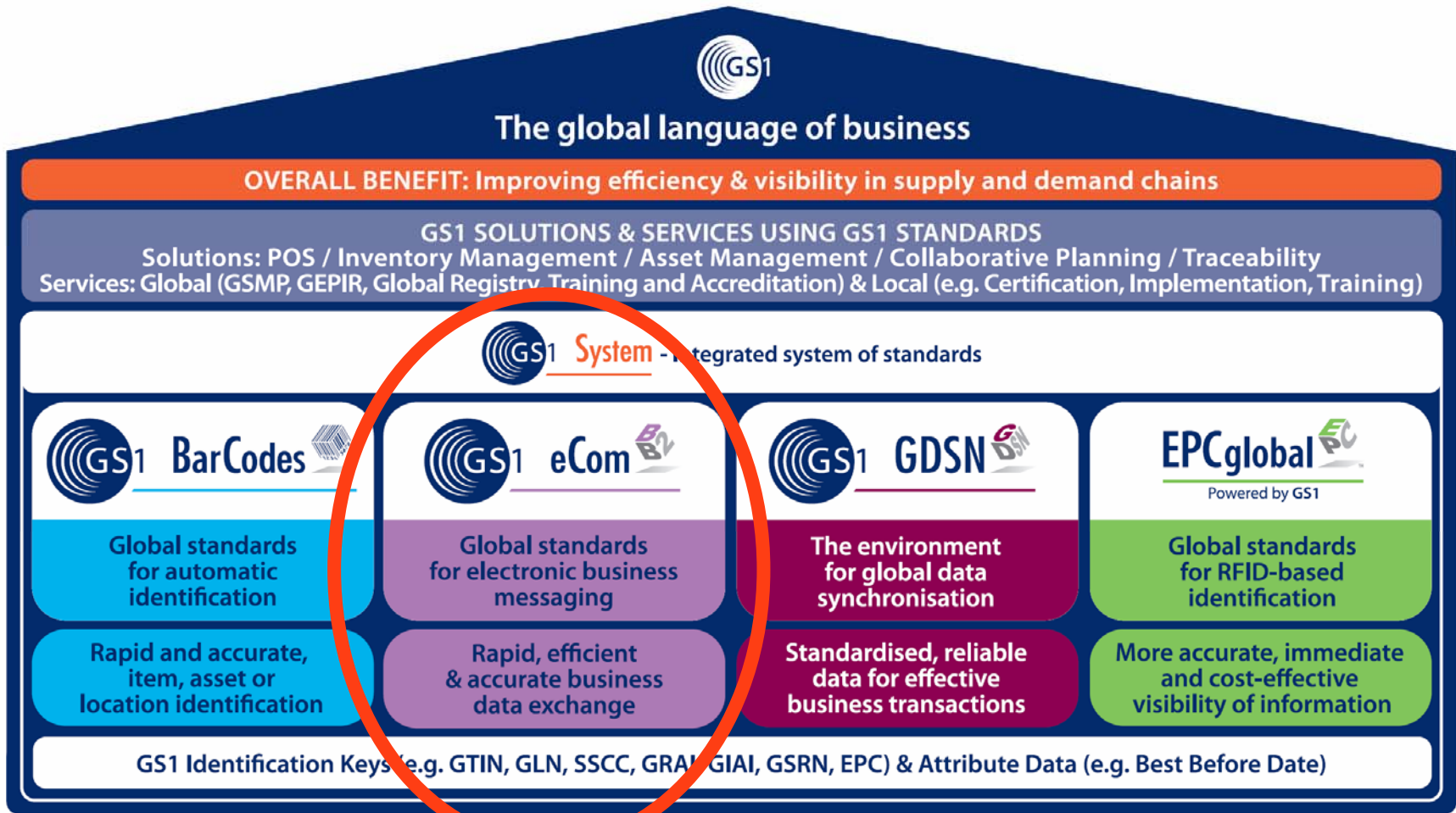
QUICK LINKS

- Reduced Space Symbology (RSS)
- Make this your home page
- 10 Steps to Barcode Implementation
- BarCodes "Beep" Presentation
- GTIN Allocation Rules



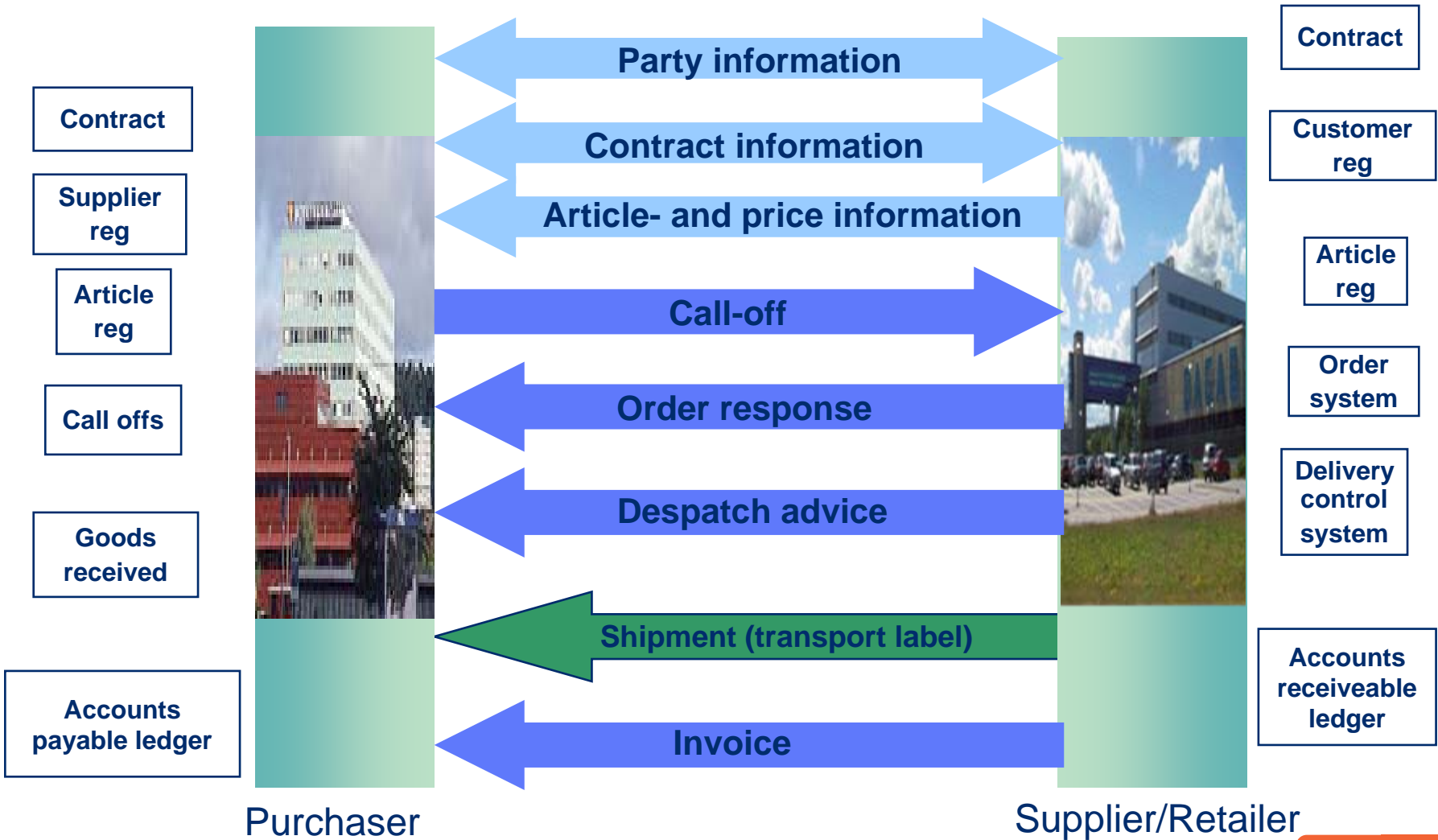


3) GS1's Brand Architecture





eCom – Automating the Information Flow

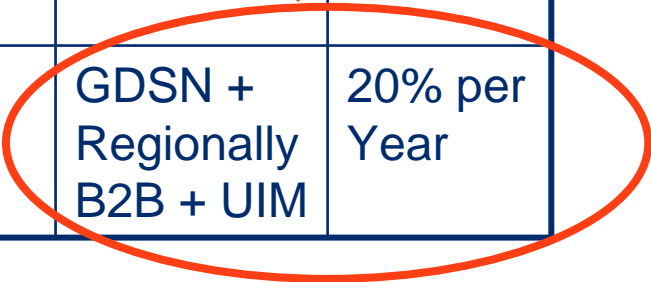




The World of GS1 eCom

+ 20 %

	Total	EANCOM	GS1 XML	WEB EDI
Countries	54	42	33	21
Users	100.000	70.000	15.000	18.000
Message implemented (not implemented)		43 (4)	54 (15)	
Growth		10% per Year	GDSN + Regionally B2B + UIM	20% per Year





Value of eCom Transaction by Industry*

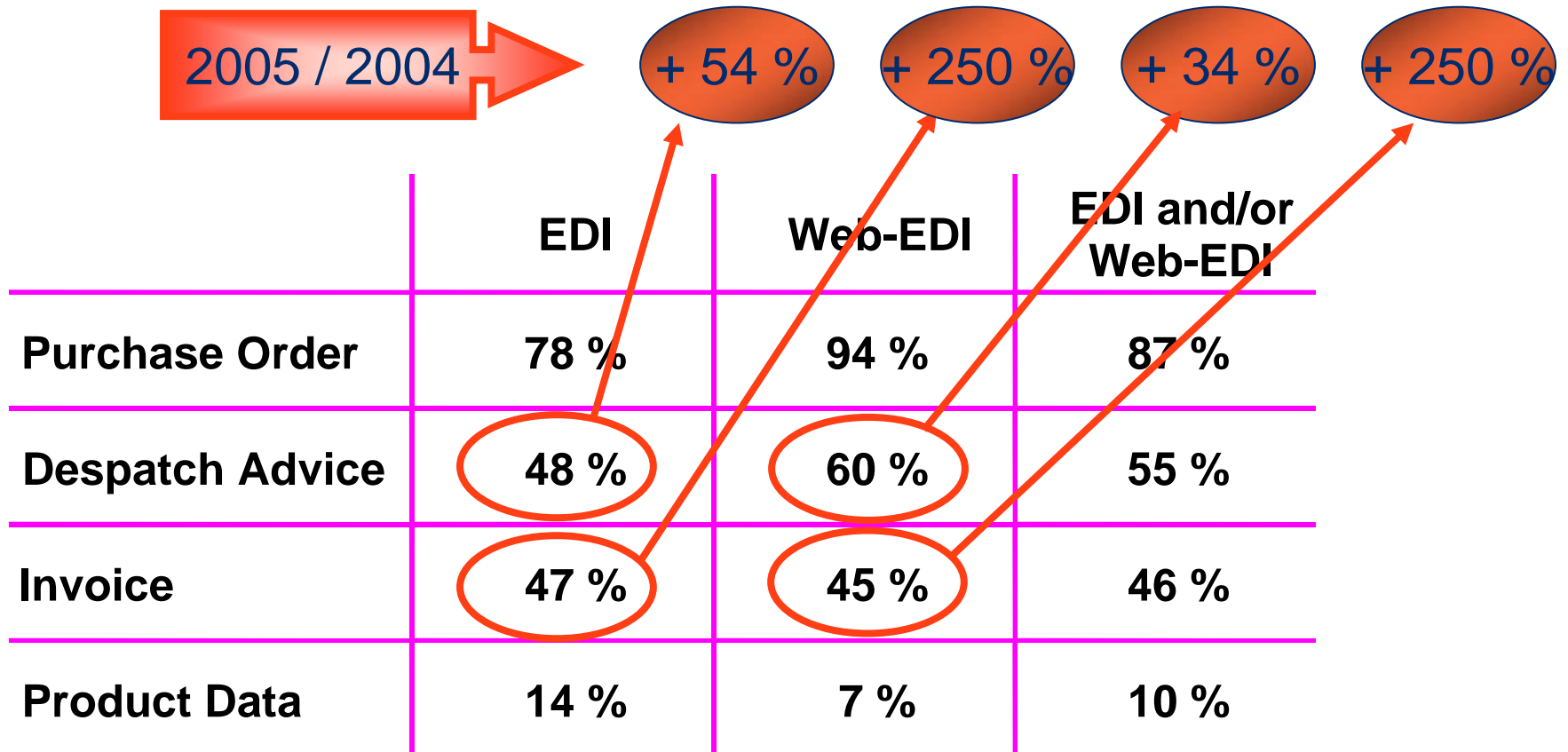
Industry	Billions of Dollars
Chemicals	\$63
Consumer Goods	\$302
Electronics	\$90
Food & Beverage	\$396
Healthcare	\$432
Manufacturing	\$690
Metals & Natural Resources	\$433
Pharmaceuticals	\$179
Retail & Distribution	\$376
Transportation	\$312
Utilities	\$168
Total	\$3,443

GS1 HUG



Case Study GS1 France

Most implemented eCom messages





More information on eCom?

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Home > Products & Solutions > eCom > EANCOM > Implementation

GS1 EANCOM

- Overview
- Technical
- **Implementation**
- Support
- Training

Implementation

The following resources are available to help you implement EANCOM.

- EANCOM 2002 – User Manual
To receive the User Manual, please [contact your local GS1 Member Organisation](#)
- [Digital Signatures for EANCOM messages](#)
- [Electronic Business in the GS1 Community in 2004](#)
- [How to submit an EANCOM Change Request](#)

Updates to EANCOM 2002

In the EANCOM 2002 , many updates have been made to the User Manual. To help you to navigate through these changes a series of short documents have been provided as supplementary information to the manual. They are intended to ease any migration issues that may arise when changing from EANCOM 97 (based on UN/EDIFACT D.96A) to EANCOM 2002 (based on UN/EDIFACT D.01B).

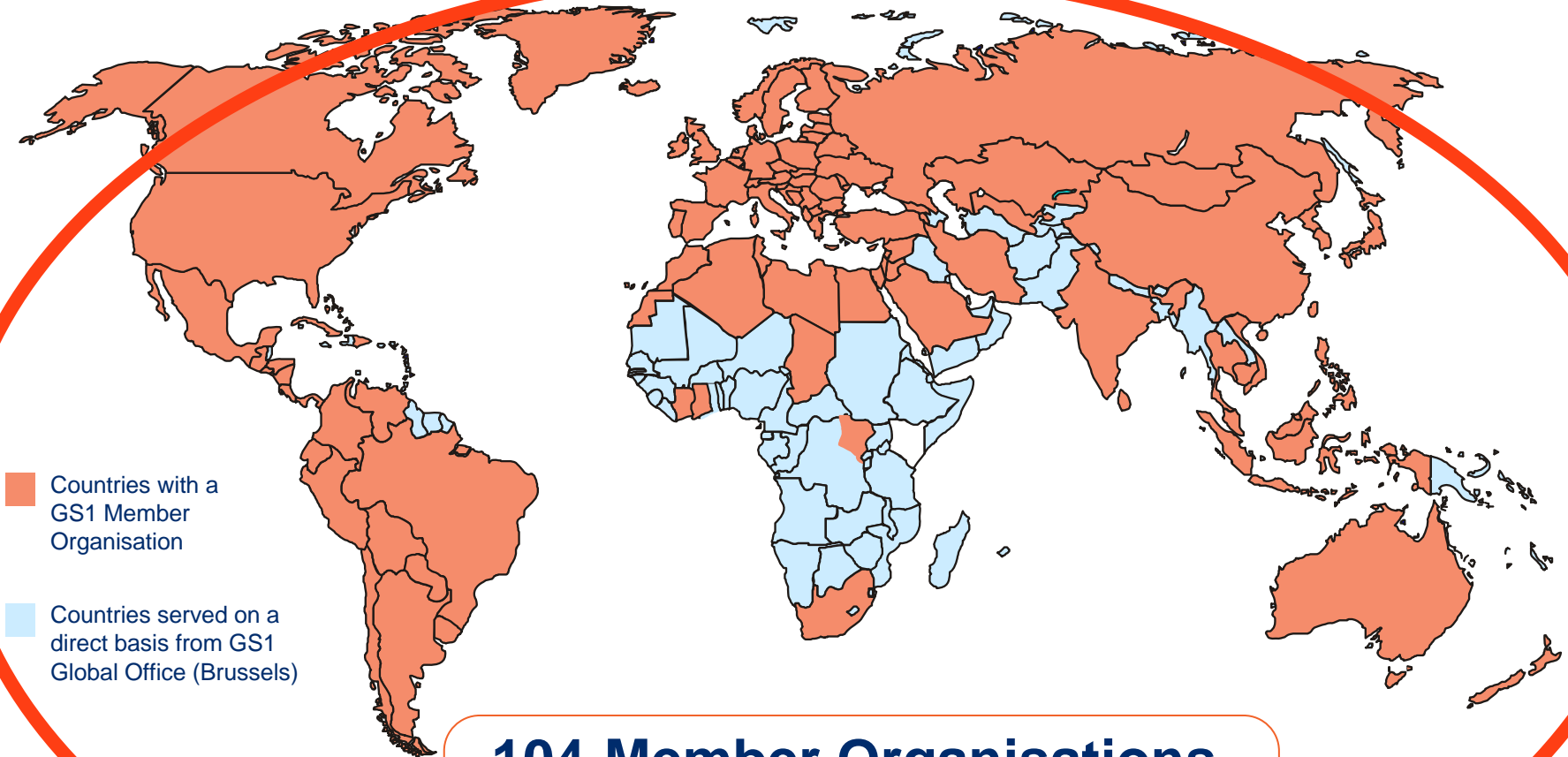
- [Additional documents](#)

GS1 HUG

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4) Where to get more information



**104 Member Organisations.
145 Countries served.
Local services, global reach.**



The Evolution of GS1

**GS1 is
now a
single
global
organization
with offices in
over 100
countries.**

**At GS1, we
see one
vision,
speak with
one voice,
act as one
organisation.**



**Our strength
is our single
face to the
outside world.**

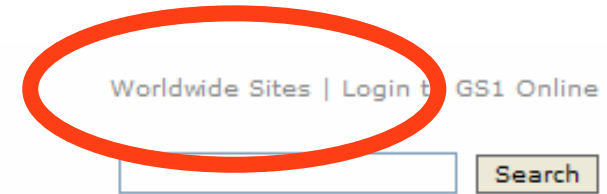


If you only remember one thing from today?

www.gs1.org



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GS1 is a leading global organisation dedicated to the design and implementation of global standards and solutions to improve efficiency and visibility in supply and demand chains globally and across sectors.

GTIN & GLN Allocation Rules in French and Italian

7 September 2006: Created in response to user demand, these new language versions of the GTIN and GLN Allocation Rules make the GS1 standards directly accessible to a wider audience. The web platform ensures consistency in global support and now includes links to the recently updated Global Electronic Party Information Registry (GEPiR) service.

- [View the GTIN Allocation Rules website in French](#)
- [View the GTIN Allocation Rules website in Italian](#)

QUICK LINKS

Use the following links to find out more about GS1's products and services:

- [GS1 BarCodes](#)
- [Check Digit Calculator](#)
- [GTIN Rules](#)
- [GLN Rules](#)

- [Support](#)
- [Training & Education](#)



GS1 Member Organisations are there for you



Société Tunisienne de Codification
الشركة التونسية للتقييم

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ACCUEIL GS1 TUNISIA STANDARDS DE CODIFICATION SERVICES EN LIGNE CONTACT



koordinace
poradenství
metodika
pro systém GS1

english version

Extranet

GEPIR

EAN katalog

Kdy změnit GTIN



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Willkommen bei GS1 Austria

.....



GS1 Standards bei Obst und Gemüse



GS1 Japan

EPCglobal Japan

EPCglobal
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