GS1 致力推行企業全球語言

GS1：統一、唯一、第一

Our vision is a world where goods and related information move efficiently and securely for the benefit of businesses and people’s lives.

Our mission is to be the neutral leader enabling communities to develop and implement open global standards.
GS1 遍行 5 大洲 150 國

111 Member Organisations
1,500,000+ member companies
150+ countries served
2,000+ people helping us

GS1 的全球標準體系

Identify

Capture

Share

Electronic Commerce Information Flow

Interoperability

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GS1 provides a system of standards and supporting services and solutions, to help companies in our key sectors solve together business challenges in the value-chain.
目前在流通業推動的重點 (1/2)

**GS1 B2C** Initiative is helping manufacturers meet the demands of the new digital consumer, providing access to trusted information about their products.

**GS1 EPCglobal** standards for RFID are revolutionising the retail supply chain, providing the visibility needed to achieve 100% inventory accuracy or to track food from farm to fork, helping combat theft with Electronic Article Surveillance (EAS) or combat anti-counterfeiting.

**GS1 Fresh Foods** initiative is bringing bar-coding to fresh foods with the GS1 DataBar, helping reduce spoilage and inefficiencies along the food chain.
**GS1 Order-to-Cash** is allowing companies to optimise their order, dispatch and invoice processes with eCom/EDI, limiting the inefficient paper trail.

**GS1 Traceability** Solution is ensuring companies will be able to meet regulatory needs concerning the traceability of products and food along the extended supply chain.

**GS1 Recall** Standards will help companies recall their products faster in case of safety issues.

**GS1 Sustainability** aims at helping trading partners share sustainability-related information about their products for their sustainability initiatives.

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**GS1與健康照護JIC推動共同標準**

- International Organisation for Standardization (ISO)
- European Committee for Standardization (CEN)
- Health Level 7 (HL7)
- International Health Terminology SDO
- Clinical Data Interchange Standards Consortium (CDISC)

**Joint Initiative Council**

- World Health Organization (WHO)
- World Customs Organization (WCO)
- International Society for Blood Transfusion (ISBT)
- European Association of Hospital Pharmacists (EAHP)
- European Association of Medical Device manufacturer (EAMED)
- International Society for Quality in Healthcare (ISQua)
• Medication errors result in additional treatments, disabilities and even loss of life
• Counterfeiting is an increasing global threat
• Traceability from manufacturer to patient is problematic
• Product recalls can be difficult to manage, in particular for healthcare providers
• Manual interventions in the healthcare supply chain decrease its efficiency and accuracy
GS1’s efforts in the transport-logistics domain:

- **GS1 Logistics Forum**
  - STILL - Recommendation on GS1 Logistics Label
  - Logistics Interoperability Model (LIM) – eCom
  - Message standards developments for T&L

- **EPC TLS Industry Action Group**
  - Contribute to the EPC RFID Standards developments
  - EPC RFID Pilot Projects using EPC standards including EPCIS

- **Number of MO’s already active in the T&L Sector**
  - (in different areas, incl. eCom, RFID, BarCoding)

- **Activities with WCO & local Customs**
  - (pilot projects)

- **Contributions to the int’l standards development (ISO, UN/CEFACT)**

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**Data carriers**

Several technologies must be integrated:

- **Bar code**
  - Optical Identification
  - 10 bytes
  - Low $100

- **Passive RFID**
  - Sensor network
  - 4,000 bytes
  - Small

- **Active RFID**
  - Data storage
  - 4,000 bytes
  - Big

- **Data storage**
  - 4,000 bytes

- **Sensor network**

**Communication range**
- 0.1 m
- 1 m
- 10 m
- 100 m
- 1,000 m

**Unit Price**
- High
- Low

**Nr. of items read at once**
- High
- Low

**Communication range**
- 0.1 m
- 1 m
- 10 m
- 100 m
- 1,000 m
GS1 in Customs

- Memorandum of Understanding between GS1 and WCO to provide a framework for further collaboration
- GS1 UCR Pilot Projects, joint Customs and Trade initiatives to address supply chain security and trade facilitation
- EPC TLS Pilot projects to demonstrate global product and asset visibility utilizing EPCIS
- GS1 MO’s (including US, Germany, Netherlands, India…) actively working with national Customs administrations, in international forums, at WCO …
- Global Shipment Identification Number (GSIN), GS1 ID Key that meet requirements of the WCO for the unique identification of shipments

APEC Japan 2010

Supply Chain Visibility Workshop

Mid-September
Sendai

March 1 Hiroshima

Action Plan
Investments for trade facilitation and growth of APEC

Sponsored by

P.R.China
Republic of Korea
Japan
GS1 條碼 & 識別 – 目前推動的重點

• Fresh Food Deployment Kit
  • A ‘Go to Market’ kit designed to deploy Fresh Food Standards and GS1 DataBar
• Managing Multiple BarCodes
  • Develop standards for users when confronted with more than one barcode on a single product package
  • Deployment of new B2C Extended Packaging Standard
• Managing Variable Data at POS
  • Identify how to meet the demands for more data at Point-of-Sale
• GS1 DataMatrix Deployment
  • Support the growing implementation of GS1 DataMatrix in Healthcare

目前運用 GS1 EPC/RFID 之重點領域

Retail & Consumer Goods
• Inventory management in Apparel & CPG
• Anti-counterfeiting for luxury goods
• Traceability of fresh foods and livestock

Transport & Logistics
• Shipment tracking in cross-border
• Asset visibility in the rail network
• Letter/parcel tracking in the international postal system
• Warehouse management for T&L operators

Aerospace & Defense
• Parts tracking
• Baggage handling
GS1 helps companies interact and share information.

Physical movement of goods throughout the supply chain

Business data shared between trading partners

- **Master data**: technical information about a product, such as weight and size of the product, case, pallet – synchronised with GS1 GDSN
- **Transaction data**: such as order, dispatch advice, invoice - exchanged automatically with GS1 eCom
- **Physical event data**: information about the movement of a trade item or logistical unit – shared with GS1 eCom or GS1 EPCIS

GS1 Solutions

- B2C (MCom)
- Traceability
- Sustainability
- Upstream Integration
包裝資訊與服務延伸：行動商務基礎

Health/Wellness  Environment/Ethical  Certified

Product location

Advice  Detailed information  Community

Future Store

零售環境行動應用購買情境
GS1 Global Traceability Standard - a unique solution to optimise the company’s traceability system based on internationally recognised standards already used in most supply chains

GS1 Traceability Assessment – a service provided by GS1 Global Traceability Auditors to assess your company’s traceability system and help you meet international regulations

Global traceability guidelines - for specific sectors

Expertise, training & implementation support by local GS1 organizations

GS1 Traceability is a foundation of supply chain business processes. It supports various business needs:

1. Compliance with regulations
2. Consumer safety and security
3. Product recalls
4. Support of HACCP
5. Product quality management
6. Patient safety in healthcare
7. Visibility (Visibility)
8. Logistics efficiency
9. Authentication
10. Counterfeiting
11. Waste management
12. Brand protection

Traceability addresses different needs
全球成功案例快速增加

GS1 永續性方案
促進綠色供應鏈 - 有包裝永續性通用語言

• The Global Protocol on Packaging Sustainability – an initiative of the Consumer Goods Forum with global retailers and manufacturers to develop a common measurement system for packaging sustainability
• GS1 Sustainability Data Synchronisation - global standards for the automated exchange of these sustainability-related metrics between trading partners. Currently in early stages of development

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GS1上流整合方案

改善製造業者與上游供應商之間的協作

• GS1 Upstream Integration Solution
  Designed to address the challenges in supply chain integration and collaboration between manufacturers and their suppliers.

• GUSI: Global Upstream Supply Initiative
  A Working Group of The Consumer Goods Forum with manufacturers from CPG/Retail and their suppliers. Collaborating together to develop an upstream solution based on common scenarios, common processes, common electronic messages – in order to reduce complexity and implementation costs and create an exchange platform.

結語

提升企業競爭力
從實施條碼開始

商業全球語言

通行150餘國30個行業包括消費品、醫療保健、運輸與物流等行業

效率 Efficiency
  • 降低成本與省時間
  • 改善資料品質

安全 Safe
  • 支撐消費者安心與產品安全
  • 符合法規要求

協作 Collaboration
  • 使夥伴有更好的溝通
  • 對消費者有更好的服務

永續性 Sustainability
  • 減少碳與廢棄物
  • 使永續性資訊可用

解決方案(Solutions) – 以全球標準協同解決企業難題
例如，Order-to-Cash、B2C、產品鑑別、追跡管理、基礎資料管理等

服務(Services) – 支撐標準實施與發展
例如，標準應用與發展、訓練、教育、資料庫、認證、顧問諮詢

GS1標準體系：讓價值鏈全程可視化

識別Identify
  GS1 ID Key

獲取Capture
  GS1 BarCode、GS1 EPC/RFID

分享Share
  eCom、GDSN、EPCIS
服務窗口

GS1 Taiwan

南區服務中心：
TEL：07-535 0968
E-Mail：pony.yau@gs1tw.org

台北總部：
TEL：02-2393 9145
E-mail：ean.twn@gs1tw.org
http://www.gs1tw.org