The Global Language of Business



Introduction of GS1 System of Standards

Collaboration in Standardisation delivering value to Users



A need for global standards...



What happens when there aren't global standards?

CONFUSION resulting in:

- Inefficiencies
- Increased risk
- Lost opportunities



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GS1 is a global standards organisation

- neutral and not-for-profit
- USER-DRIVEN and governed
- global and local
- inclusive and collaborative





GS1 is both global and local

GS1 Global Office

Identification, creation, development and maintenance of standards and our foundational architecture, coordination with other international bodies, development of training programmes...

GS1 Member Organisations

- Local offices in 112 countries around the globe
- Implementation of standards, local regulatory adjustments, community management and relationship management with local governments and regulatory agencies...



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GS1 standards are used billions of times every day, everywhere

in over 2 million organisations

in close to 150 countries



by big retailers
by small shops
by world-famous brands
by logistics
and many more...



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GS1: Bringing companies together

GS1 brings together companies representing all parts of the supply chain.

Manufacturers, Distributors, Retailers, Hospitals, Logistic Service Providers, Warehousers, Carriers, Forwarders, Customs Brokers, Customs Organisations, Solution Providers, Software & Hardware Providers, Local and International regulatory authorities and more work together to create, implement and use standards

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



GS1 standards benefits



Some of the world's best-known companies sit on our Board



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Business need

Shippers and Logistic Service Providers need to know exactly where their shipments are at any given time

GS1 can help!

The GS1 System of Standards provides a standardised way to identity items and locations... to **capture** details about supply chain movements ... and to share that information both internally and with authorised business partners





GS1: A global system of standards





Manage even the most complex Supply Chains with just a few Keys.





Global Location Number can identify:

- Any type or level of physical location (hierarchy)
- A company's physical locations, e.g. store, warehouse, berth in a port
- Organisation as an entity
- A company's legal and functional entities



Sample GLN hierarchies





Sample Hierarchies

Physical inventory locations





Identification Standards example (1)



Challenge for selecting standards:

- 1. Port to port, end to end solution
- 2. Guarantee data quality
- 3. Not creating conflicts when assigning numbers
- 4. Fit for data exchange
- 5. Comply with existing standards
- 6. If such standards are not in place yet, select most frequently used identifier for the time being

Solution:

- 1. As international as possible
- 2. Unique numbers maintained by an organization
- 3. Meaningless numbers
- 4. EPCIS format (what, where, when, why)
- 5. ISO standards
- 6. Industry practice



Identification Standards example (2)

EPCIS standard, ISO/IEC 19987:2015

What:	Vessel = IMO	number ((not an ISO	standard yet)

- Barge = ENI number (not an ISO standard yet)
- Train = GIAI number (ISO /IEC 15459)
- Truck = License number (not an ISO standard yet)
- Container = BIC code, ISO 6346
- Where: GLN number, ISO 6523
- When: Time, ISO 8601
- Why: CBV, ISO/IEC 19988:2015 (to be expanded with maritime events, e.g. ETA Berth)

Need for Interoperability among standards from multiple standards organisation



Overview EPCIS





EPCIS is data carrier neutral and can be used with any capture methods: Barcodes, EPC/RFID tags, Optical Character Recognition, etc.

EPCIS: Capture Logistic Events



GS 1

Captured in an EPCIS Repository ...

EPCIS end-to-end Piece Visibility



EPCIS enables tracking and tracing AND easy sharing of event data in real-time among trading partners up and downstream

https://www.youtube.com/watch?v=2aIAV88U6F4



Enabling Wagon visibility by sharing real time information with customers.





Thank You for your attention

Questions





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