

EPCIS

Sharing "Event Data" During a Product's Lifecycle

What + When + Where + Why + How = Visibility

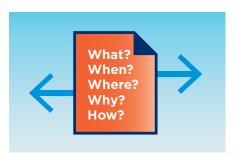
Electronic Product Code Information Services (EPCIS) is a GS1 Standard that enables trading partners to share information about the physical movement and status of products. It helps answer the "what, when, where, why, and how" questions of ever-shifting supply chains.

The need for sharing a product's journey effectively—while respecting each partner's data privacy—is essential in today's business environment. Evolving data-sharing technologies, like blockchain, bring into focus several key requirements:

- Importance of unique item and location identification
- · Need for standardized data
- · Interoperability between systems

GTIN

EPCIS is the standardized data model that can help meet all these requirements and enable businesses to capture and share supply chain information about the movement and status of goods, both within their enterprise and with their business partners.

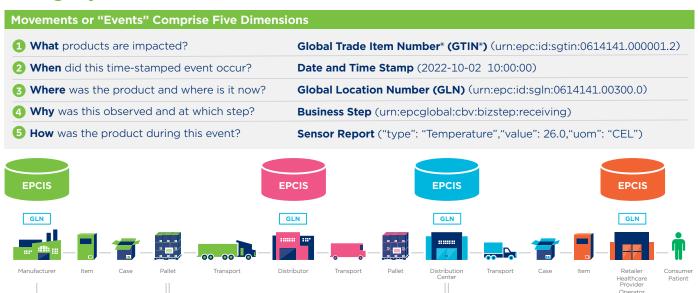


Visibility Helps

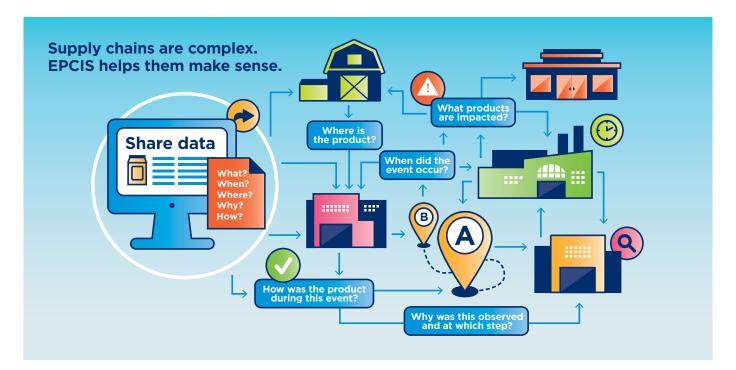
- Improve materials and inventory management, production and logistics optimization, forecasting, replenishment, promotions execution, and other store operations.
- 2 Enable track-and-trace processes, such as first-in, first-out (FIFO) management; pedigrees; returns authorization; chain of custody/ownership; and recalls.
- Brhance business analytics by applying visibility data to supply chain network planning, asset utilization analysis, and other operations.

GTIN

Sharing Physical Event Data With EPCIS



SSCC



Why Standards Are the Key to Visibility

Standards give organizations the ability to share data across different systems and to speak the same language as their trading partners. This enables product and transaction information to be shared automatically—without having to do manual lookups and conversions, or time-consuming follow-ups with customers and suppliers to check basic facts about orders, invoices, credits, delivery receipts, stock numbers, quantities, units of measure, PO numbers, etc.

Standards also complement the effectiveness of systems and processes that are used to provide visibility and run day-to-day operations. Some of the most common benefits to a standards-based approach to identify, capture, and share information include:

- The ability to integrate data throughout the supply chain to leverage technology investments
- Using data, transaction, and messaging standards to provide context for raw data to enable more granular decision-making
- Easier maintenance of systems that are typically supported by a competitive vendor community
- · Flexibility in implementing multi-vendor solutions
- The ability to integrate additional data collection and communication technologies into existing systems
- A migration path to future systems that protect existing investments

EPCIS Visibility

 Global Trade Item Number (GTIN), Serial Shipping Container Code (SSCC), and other GS1 Identification Keys

Also, secondary identifiers like lot codes and serial numbers

When • Events can be date and time stamped

• Elapsed time (e.g., time spent in frozen storage) can be recorded and reported

 A location with unique location identification via a GS1 Global Location Number (GLN)

> Location history, using transaction records that document product movement or chain of custody/ownership

 The business process step that occurred (e.g., receiving, shipping)

> State of the item (e.g., saleable, expired, in transit)

 Transactional data, such as a PO, shipment, or invoice numbers

 Sensor data on the condition of the products (e.g., temperature)

Data on the handling of products at each critical step

For more information on EPCIS, visit www.gs1.org/standards/epcis

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