



Supply chain visibility with GS1

Geneva, 25 September 2006

Anders Grangard

The global language of business

www.gs1.org

GS1 is a not-for-profit standards organisation



104 member organisations representing **all points** in the supply chain



Over a **million** companies doing business across **145** countries

Over **20** represented sectors (FMCG, healthcare, transport, defence...)



- Countries with GS1 Member Organisations
- Countries served on a direct basis from GS1 Global Office (Brussels)



GS1: A Broad Portfolio

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GS1 has a full portfolio of **products**.



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



Global standards for RFID-based identification

More accurate, immediate and cost effective visibility of information

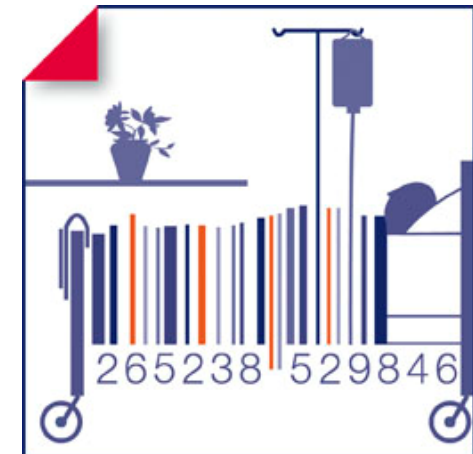


GS1 offers **solutions**, each integrating a number of GS1 products.



Traceability is a robust solution for tracking and tracing items such as food or pharmaceuticals through the supply chain.

Patient Safety ensures the prevention of medical errors and counterfeiting through the healthcare supply chain.



GS1 has active programs in several specific industry **sectors**.



Defense: Global Solutions offered by GS1 play a role in the defence sector including but not limited to procurement, logistics and asset tracking. GS1 standards are endorsed by the North Atlantic Treaty Organisation (NATO).



Transport & Logistics: Today no transport and logistics company can be efficient without robust information technology and data communication support. GS1 standards help hundreds of T&L companies.



Apparel: The textile industry is a highly deversified and complex area. GS1 provides solutions for collaboritive design, supply chain management and counterfeit prevention.

GS1 provides a wide variety of **services** to its user companies.

- Implementation support
- Benchmarking
- Verification tools and calculators
- Consulting services
- Software
- Guides and manuals
- Training and education
- Helpdesk
- And more...



The environment for global data synchronisation

Standardised, reliable data for effective business transactions



- GDSN: Global Data Synchronisation Network
- An automated, standards-based global environment that enables secure and continuous data synchronisation, allowing all partners to have consistent item data in their systems at the same time
- Standardised reliable data for effective business transactions in both global and local markets, driving costs out of the supply chain



Catalog Disparities



- Incorrect - 30% of Item Data
- To Correct - \$60-\$80 per Error
- Cleanse - 25 minutes per SKU per year



Invoice Errors



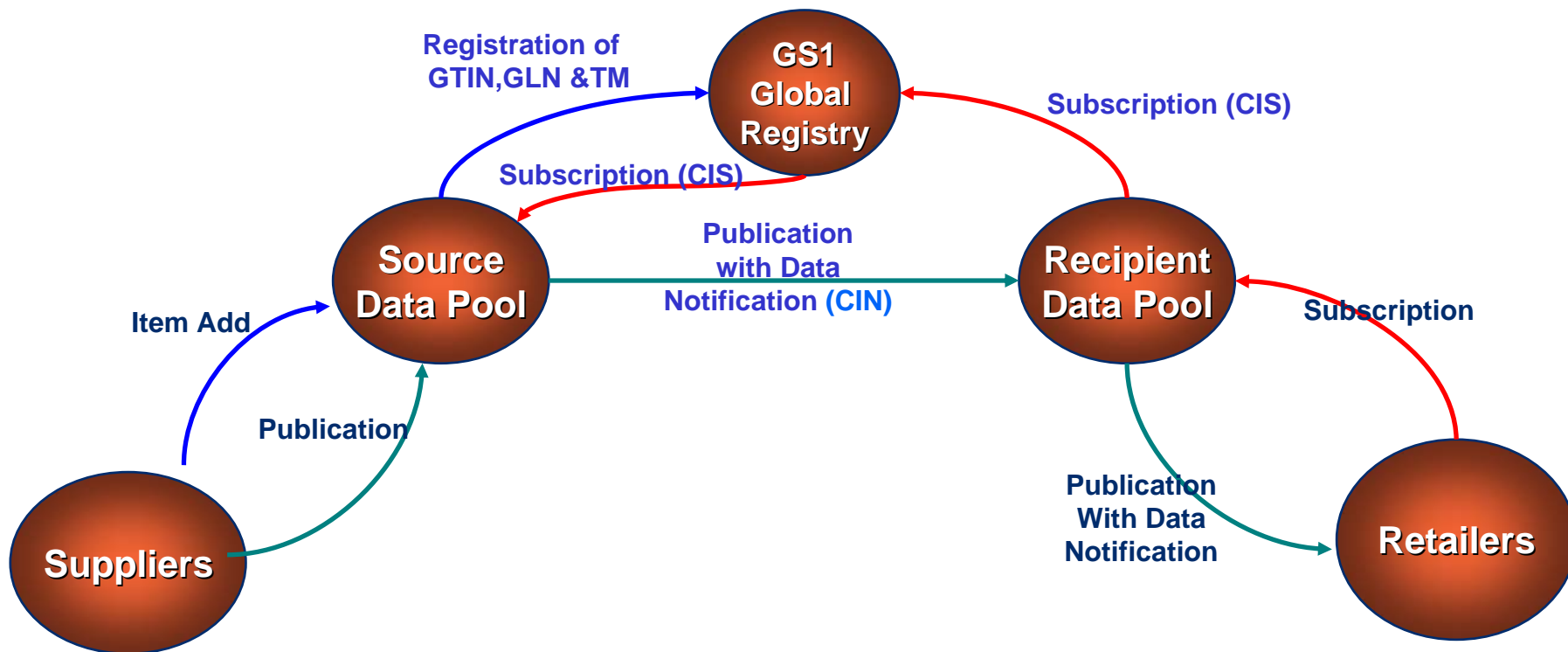
- Incorrect - 60% have Errors
- Costs – 43% have Deductions
- To Correct - \$40-\$400 to Reconcile



Lost Sales Opportunity



- Product Roll-In – 4 Weeks on Average
- Lost Sales – 3.5% due to Inaccurate data



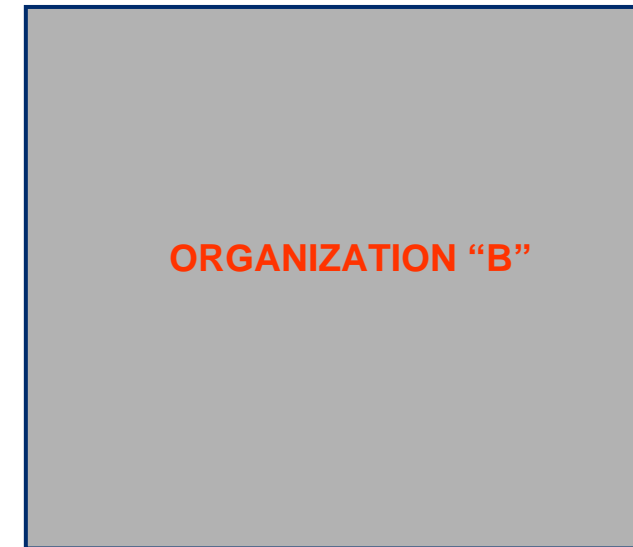
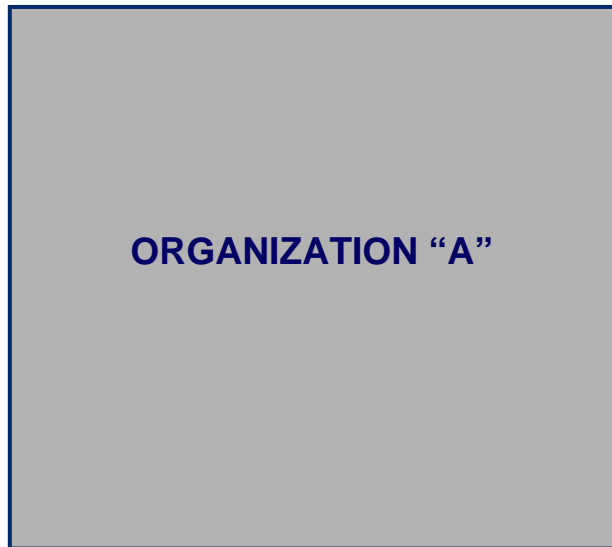
An RFID Chip

Impinj – Chris Diorio

- **Cambridge - UK**
- **MIT – USA**
- **Adelaide - Australia**
- **St. Gallen – Switzerland**
- **Fudan – China**
- **Keio – Japan**
- **ICU – South Korea**

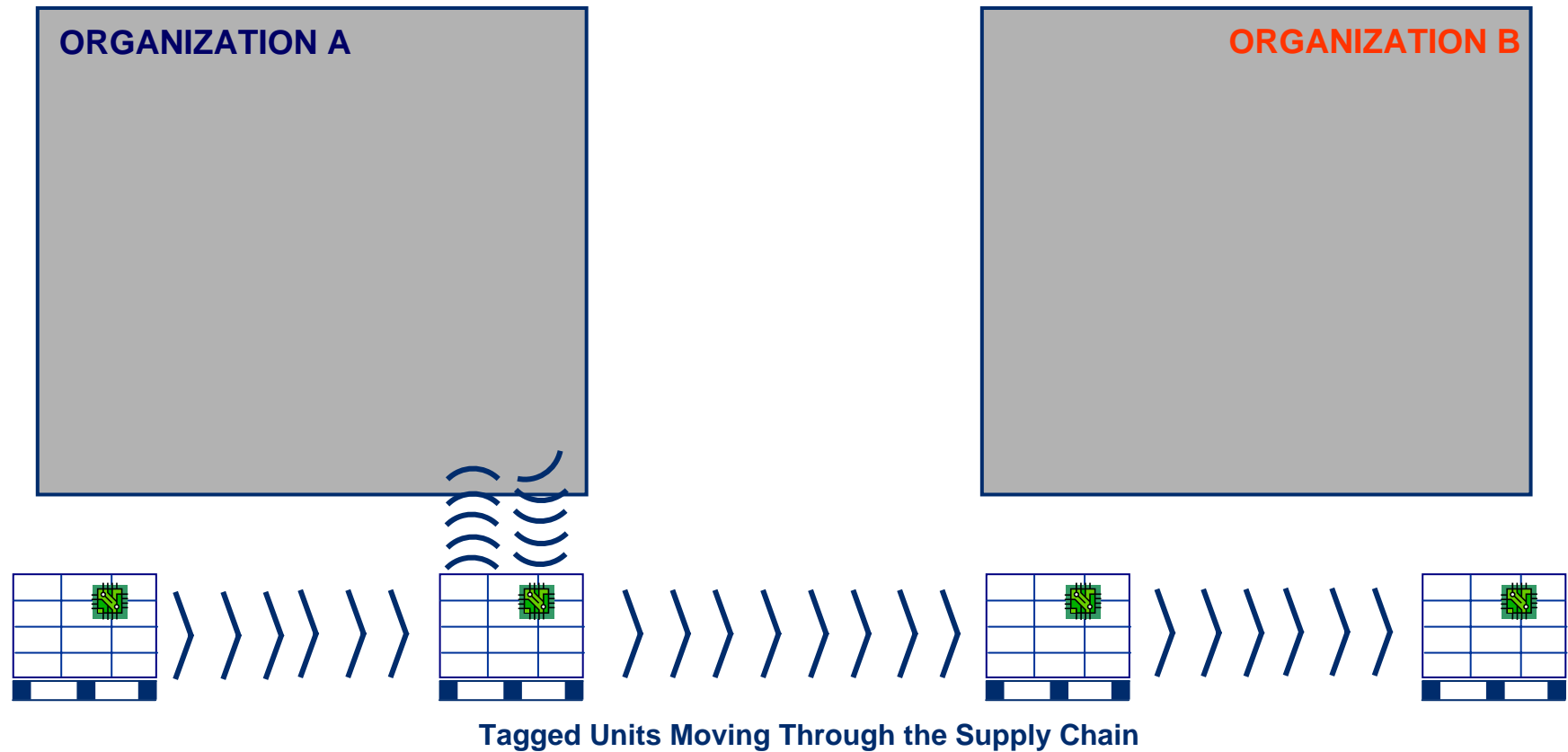


The EPCglobal Network

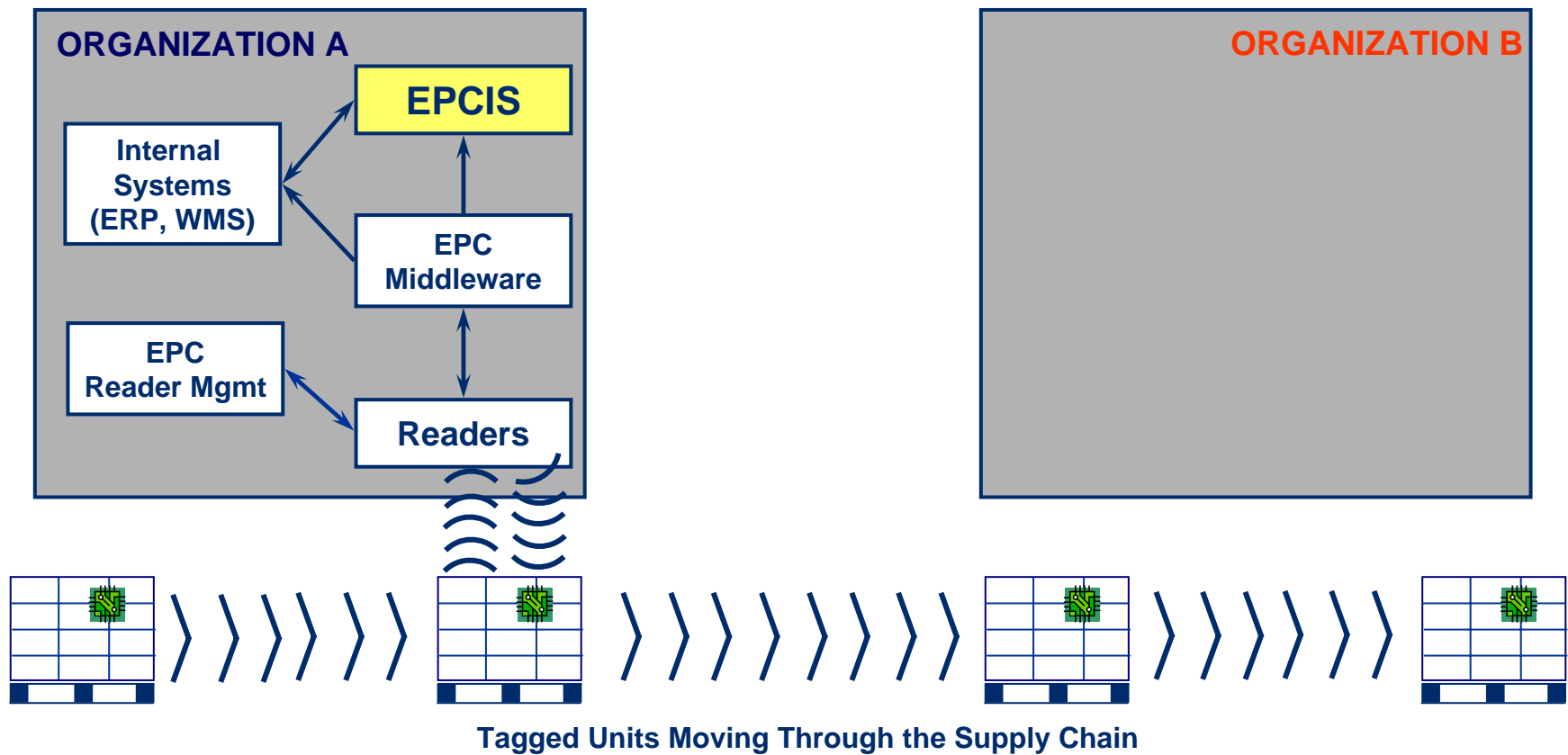


Tagged Units Moving Through the Supply Chain

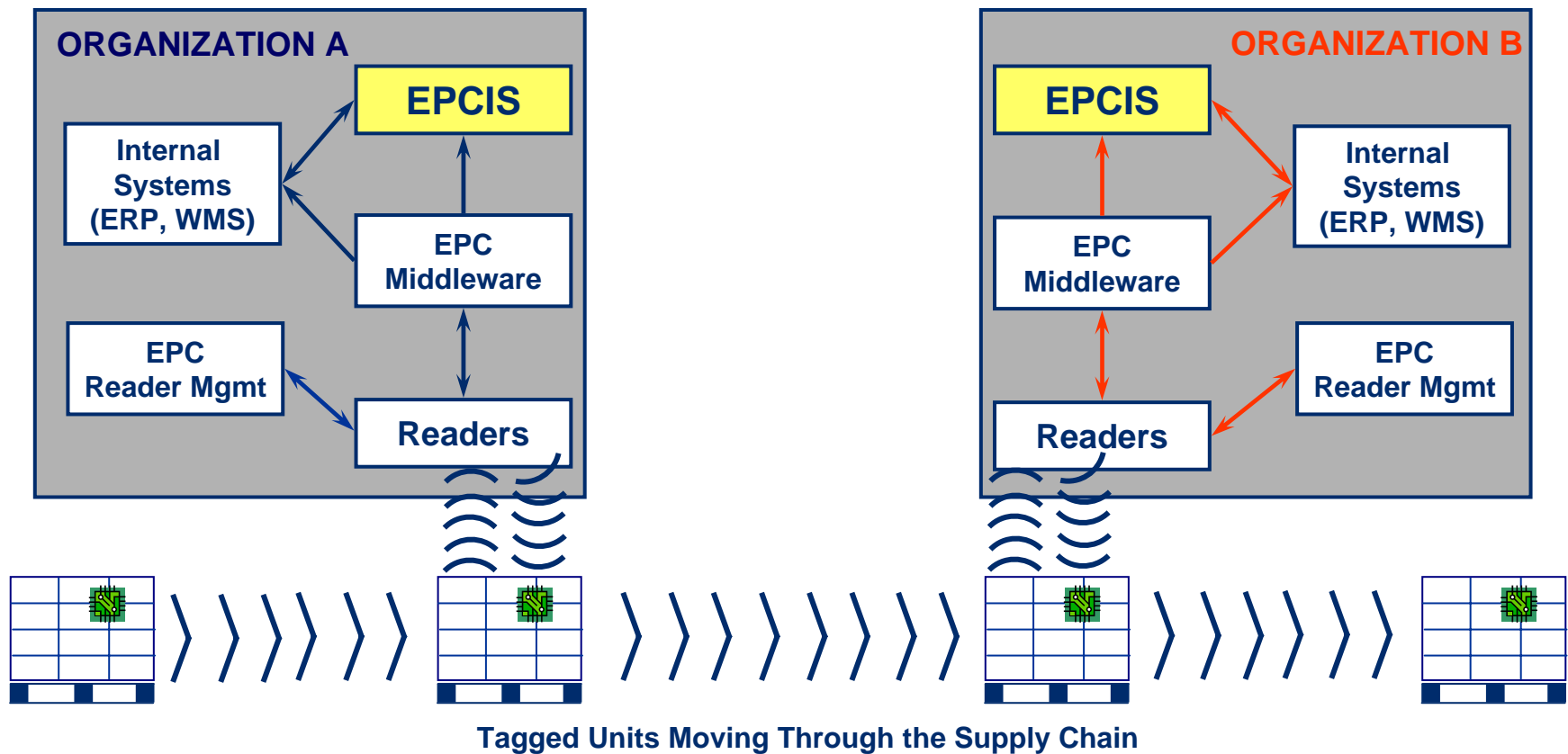
The EPCglobal Network



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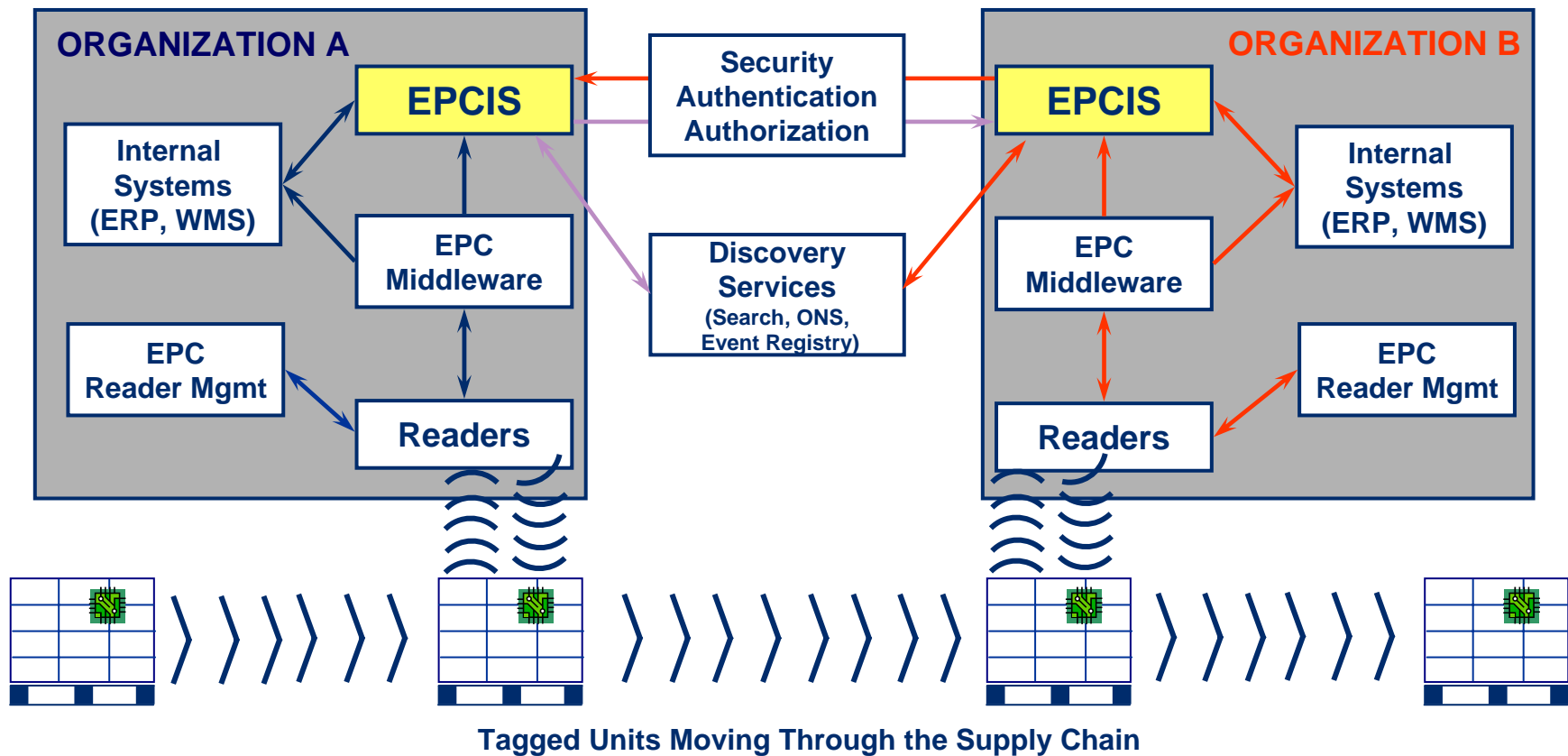


The EPCglobal Network



The EPCglobal Network

Supply Chain Visibility Event Related Information



Object Events

- Observation of a collection of EPCs during Business Step at a Location & Time.
- *This list of EPCs was observed entering DC #9 at 10:01AM, during Receiving.*

Aggregation Events

- Physical association of a set of EPCs with a parent EPC along with a Business Step at a Location & Time.
- *This list of EPCs was just Palletized with this Pallet EPC at Palletizer #27 at 12:32PM.*

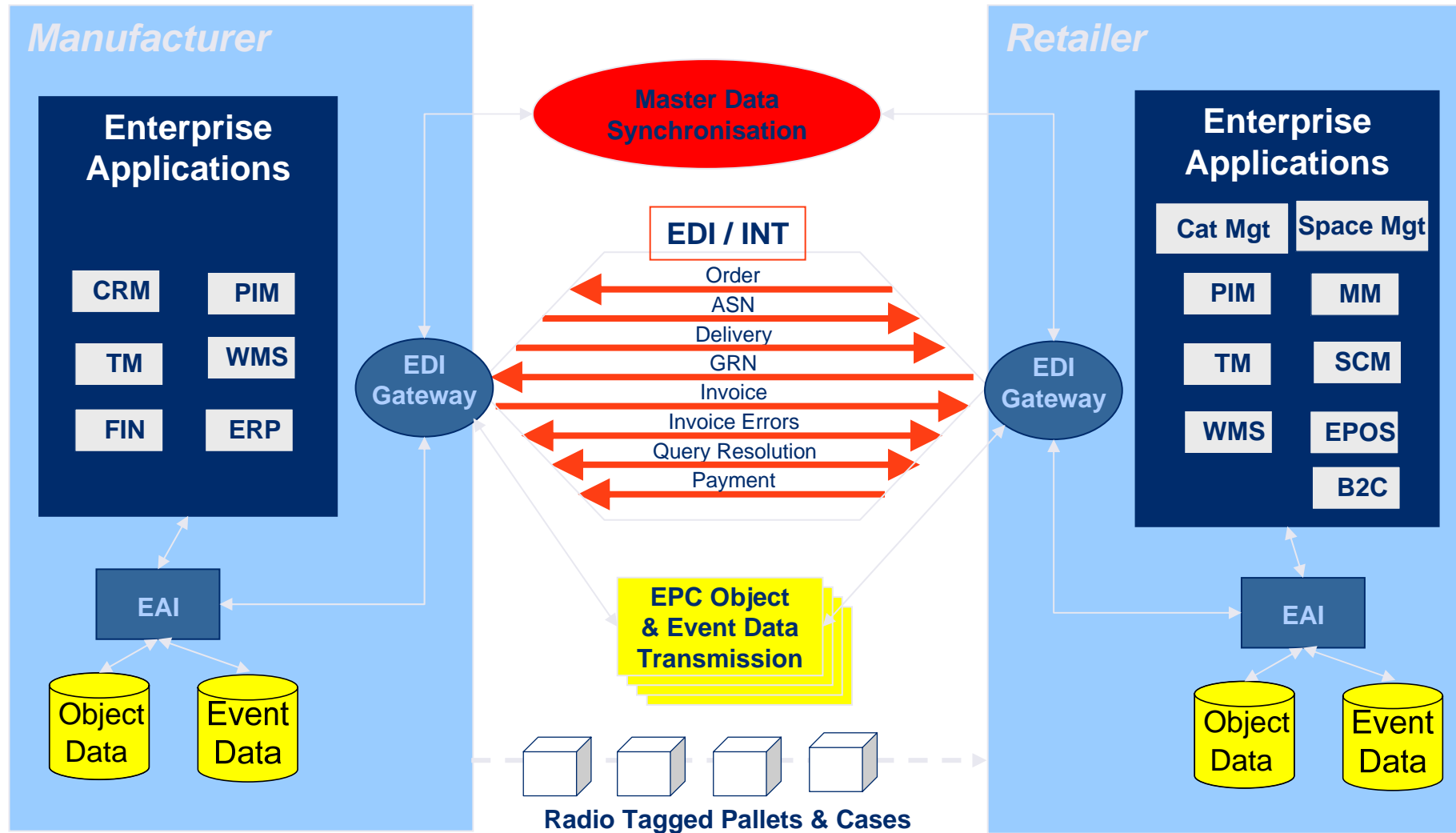
Quantity Events

- Statements about an EPC Class (not individual EPCs), a quantity, a Location & Time.
- *There were 200 bottles of Brand X cola in store #4123 backroom at 3:20PM.*

Transaction Events

- Records EPCs associated with a business transaction.
- *Order number 123 was fulfilled with EPCs x, y and z.*

Building on Existing Investment e.g. EDI, Master Data Synchronisation



Complete the eSupply Chain





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