

# RFID supply chain standards

Brussels, 24 October 2007 Henri Barthel, GS1 Global Office

The global language of business

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### GS1 in a nutshell



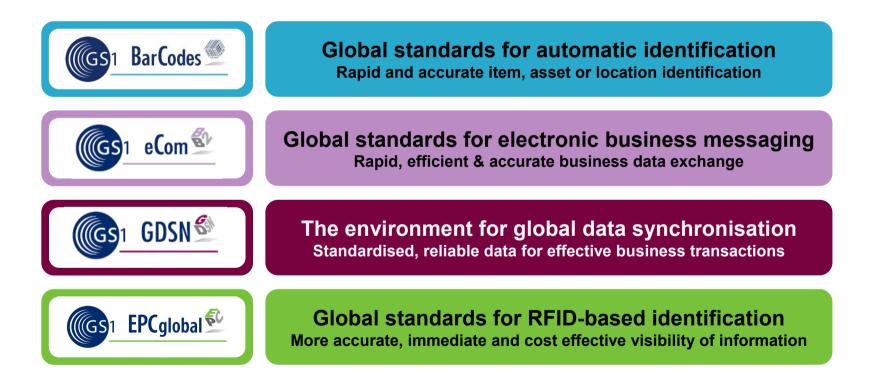
The global language of business **GS1** is a not-for-profit organisation that develops global standards for the identification of goods and services.

GS1's standards foster **cooperation** and encourage **information-sharing** worldwide.



### **GS1** Products

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





# **GS1** Services

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...



### **GS1** Member Organisations





#### Reduce complexity

- Within organizations
- Between organizations
- For Hardware and Software production and purchase decisions

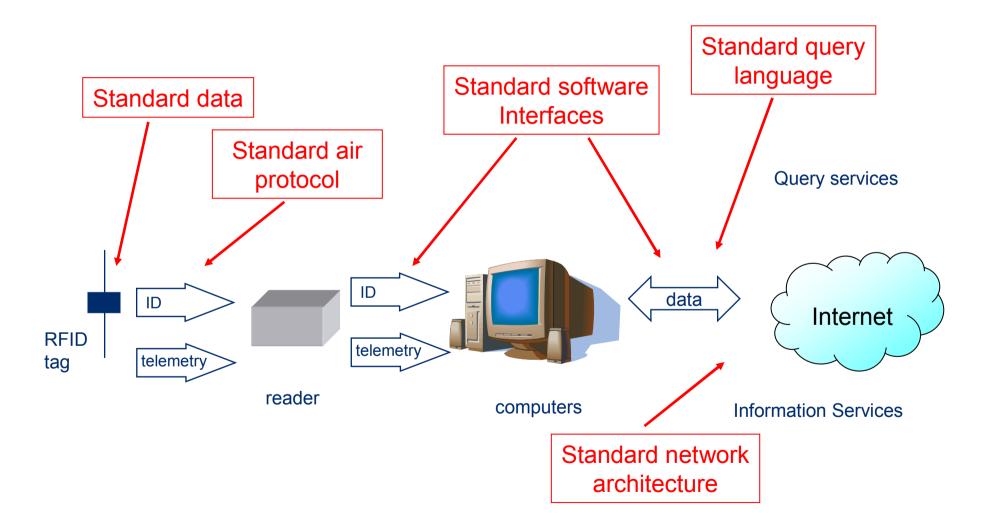
#### Reduce cost

- Implementation
- Hardware, Software and Integration
- Facilitate trading partner collaboration

Allow organizations to focus more on how to use the information than how to get information



### Where are standards required?





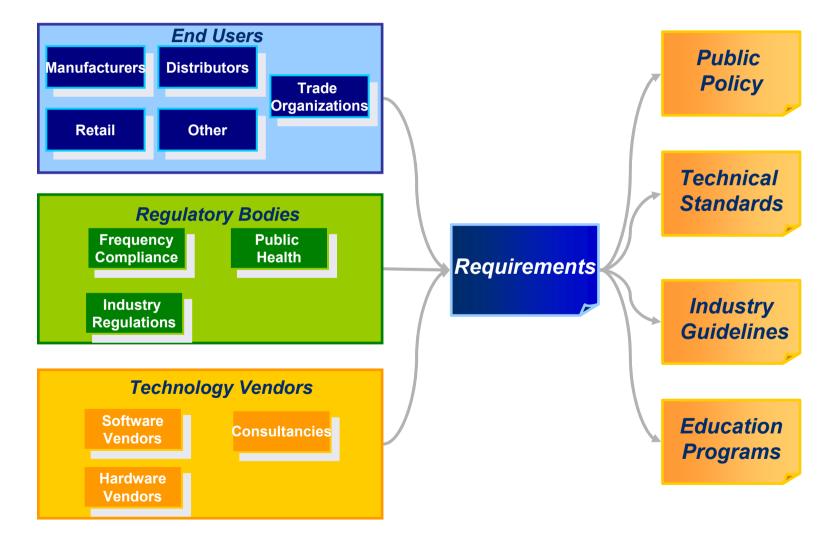




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# The EPCglobal Community





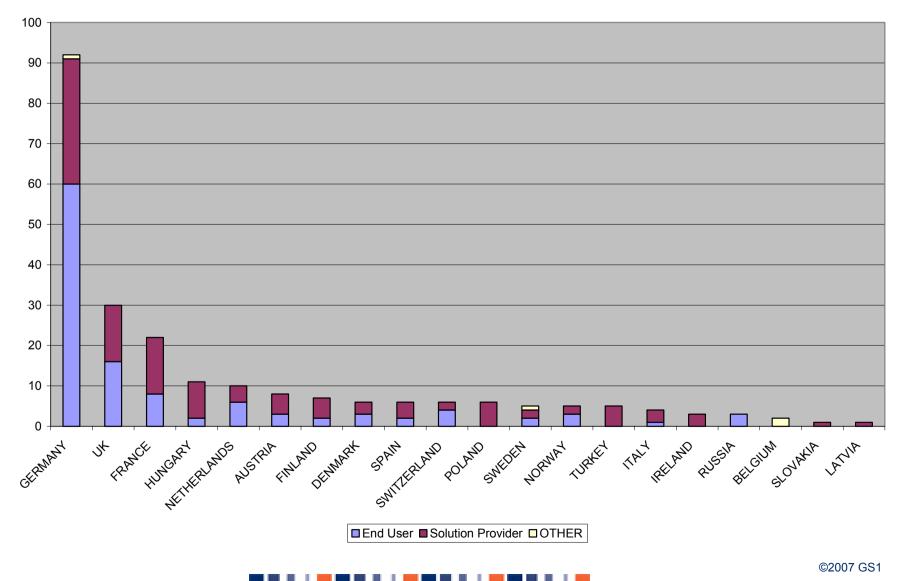
# **EPCglobal subscribers**

	September 2007
Asia Pacific	220
Europe	233
Latin America	32
ME & Africa	19
North America	659
TOTAL	
	1163

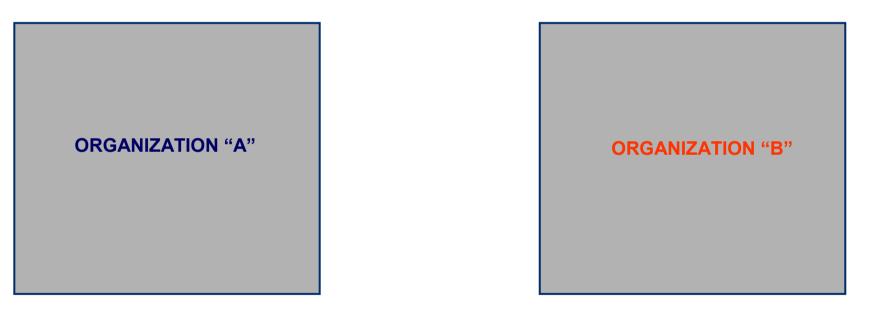
• Each member joins only once in the location of the global head office



### 233 Members across Europe (September 2007)

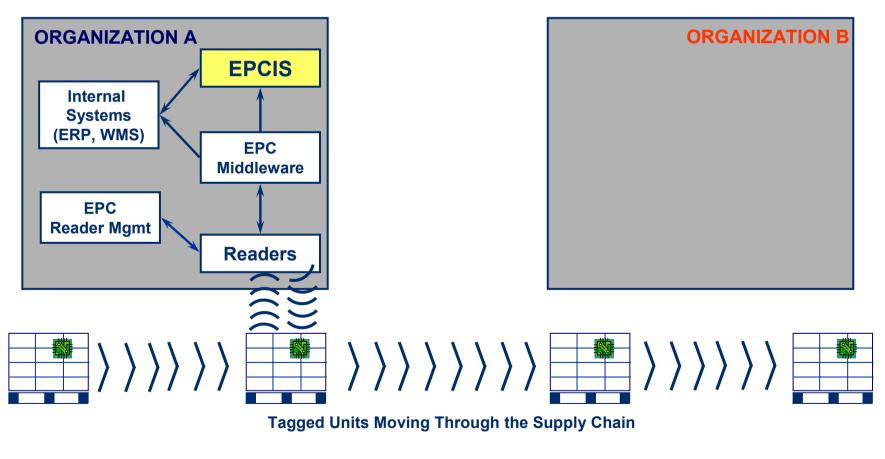




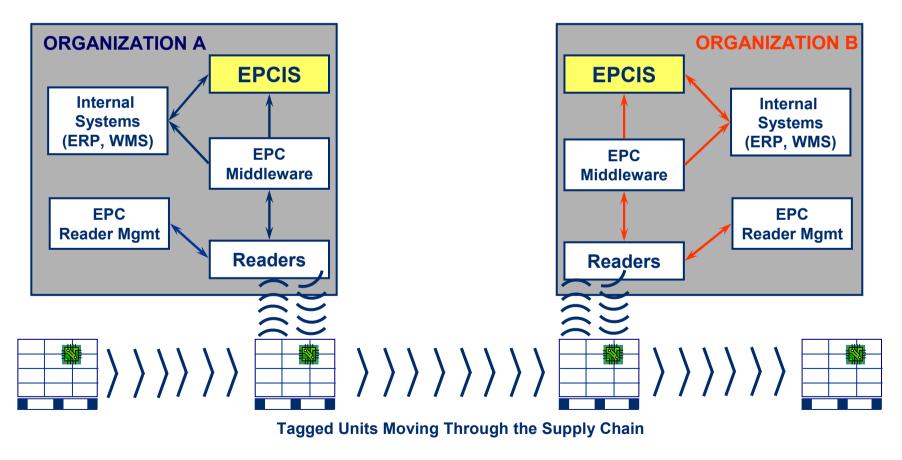






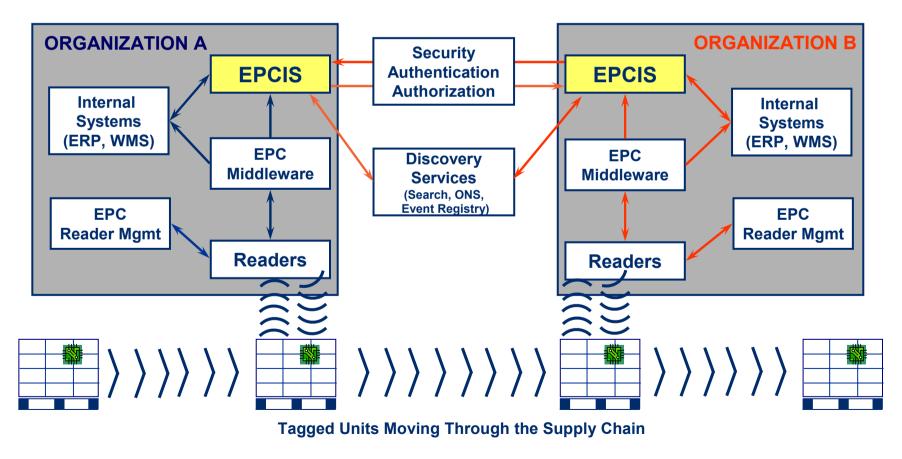






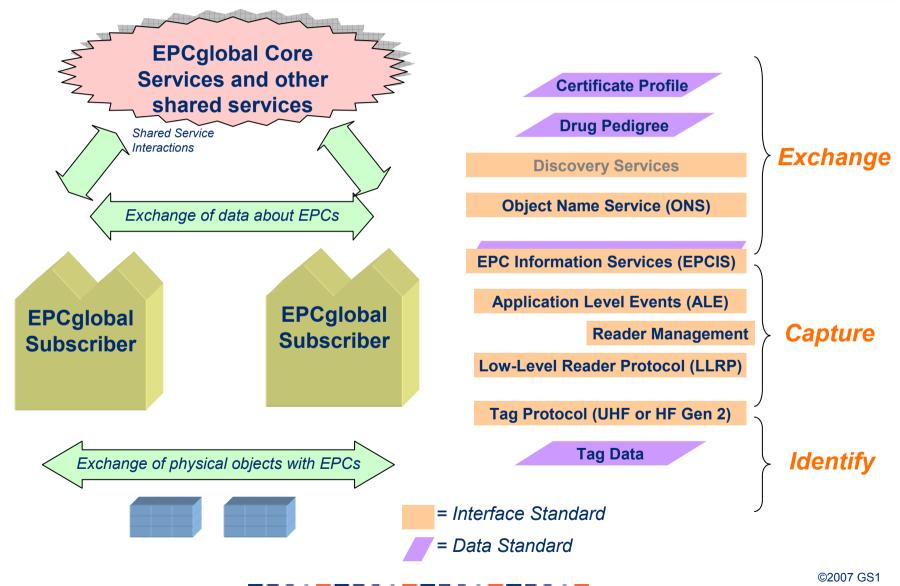


Supply Chain Visibility Event Related Information





### **EPCglobal Standards Overview**





# EPCglobal at a crossroads

- Achievements:
  - 11 ratified standards = initial standards set complete
  - Certification services expanding
  - Regulatory infrastructure established (UHF 91.8% GNI)
  - Public policy under control
- Crossroads:
  - First 3 years had to focus on standards
  - Internal resistance in some companies
  - Commitment to move beyond pilots tough decisions
- EPCglobal needs to shift focus further towards supporting adoption and implementation



- End user conviction of benefits
- Capability to support adoption and implementation
- Fee structure
- Engagement strategy with solution providers
- Some technical challenges



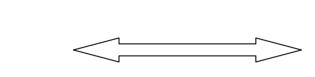
Core choices to create a step change in driving adoption

- Drive significant pilots through the EPCglobal community to identify values, benefits and learning that can be communicated broadly (Examples: Apparel, Transport and Logistics, Electronic Article Surveillance, Media and Entertainment, Healthcare)
- 2. <u>Enable and support Member Organisationss</u> to be increasingly capable of supporting implementation locally
- 3. <u>Effectively communicate, educate and align plans</u> across all activities in support of 1 and 2 above



# GS1 & ISO



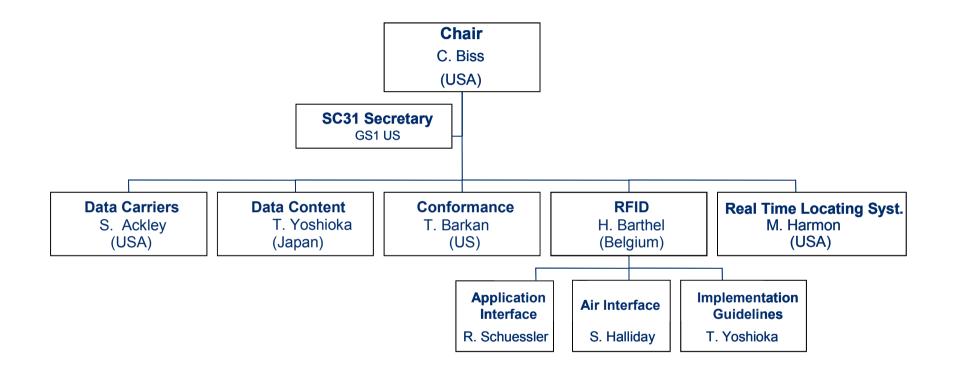








ISO committee responsible for bar codes and RFID: ISO/IEC/JTC 1/SC31



28 Participating countries + 7 Observer countries

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# SC31/WG4 projects - Standards

- 15961 Data protocol: application interface
- 15962 Data Protocol: data encoding rules and logical memory function
- 24791 Software System Infrastructure
- 24753 Air Interface Commands for Battery Assist and Sensor Functionality
- 15963 Unique Id of RF tags and Registration to Manage the Uniqueness
- 18000-1 Air Interface Reference architecture and definition of parameters to be standardized
- 18000-2 Air interface for < 135 kHz
- 18000-3 Air interface at 13,56 MHz
- 18000-4 Air interface at 2,45 GHz
- 18000-6 Air interface at 860-960 MHz
- 18000-7 Air interface at 433 MHz

Blue: ISO/IEC standard published Green: ISO/IEC standard in development



SC31/WG4 projects – Technical Reports

# 24710 Elementary Tag License Plate Functionality for ISO Air Interface Definitions

# **18001** Application Requirements Profiles

# 24729 Implementation guidelines, 3 parts:

- RFID-enabled labels
- Recycling and RFID tags
- Implementation and operation of UHF RFID Interrogator systems in logistics applications

Blue: ISO/IEC technical report published Green: ISO/IEC technical report in development



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