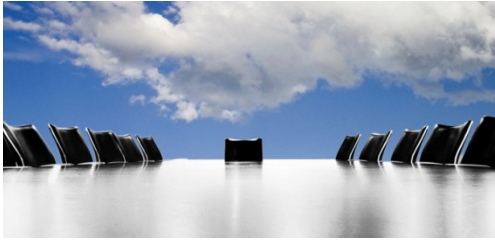




GRIFS Workshop

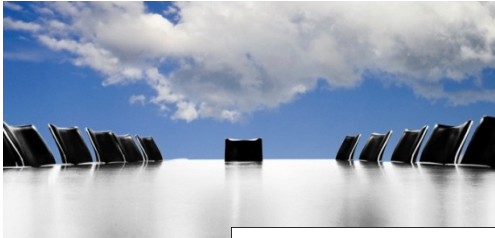
Tokyo, 26 September 2008

Progress on GRIFS activities
David Weatherby – GS1

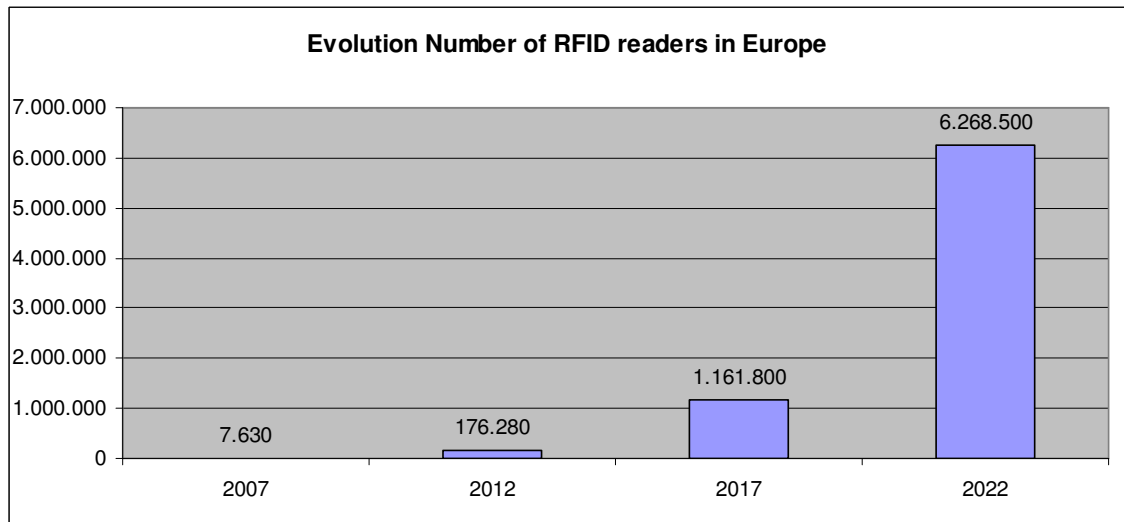
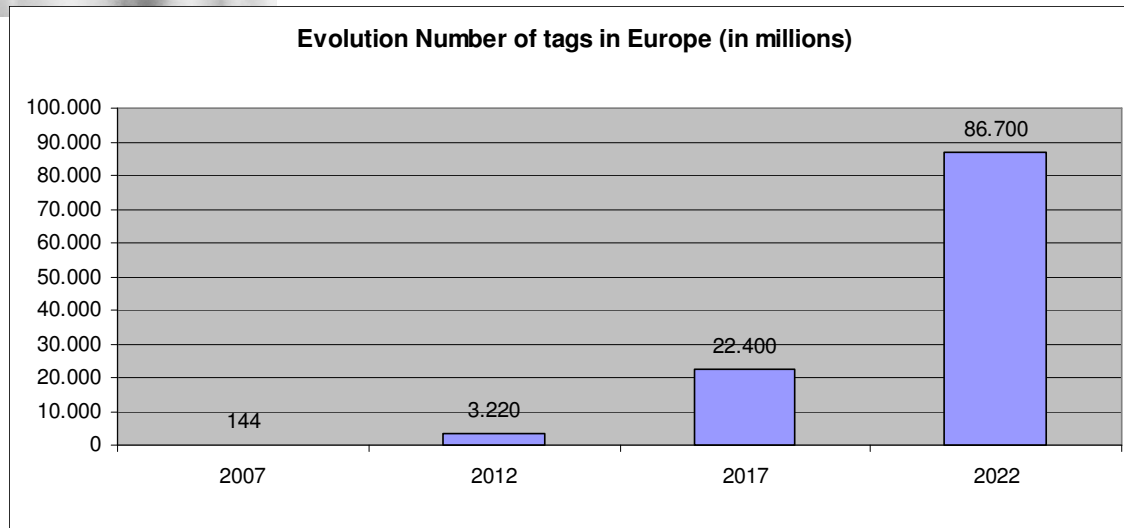


GRIFS

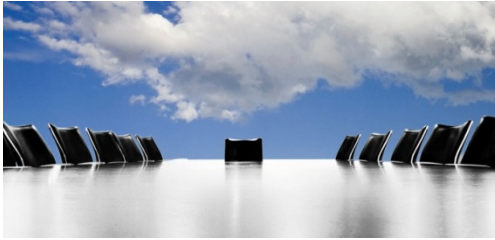
- The need for RFID standards co-ordination
- What RFID standards are in place or in development
- How can RFID Standards co-ordination be managed



Passive European RFID market sizing



Source: Bridge Report Feb 2007 European passive RFID Market Sizing 2007-2022



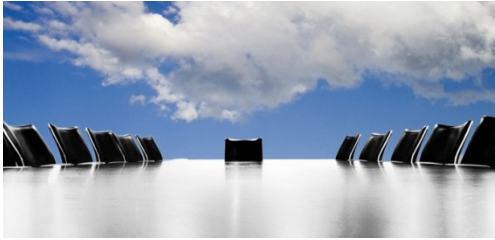
Industry Sectors Developing RFID

- Retail/CPG
- Land and sea logistics
- Airlines and airports
- Healthcare
- Animals and farming
- Libraries and archiving
- Manufacturing
- Leisure
- Laundry
- Financial and security
- Military
- Passenger Transport
- Communications
- Oil and Gas
- Chemicals
- Pharmaceutical
- Automotive
- Aerospace
- Post and Parcel

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RFID Application Areas

- Asset Tracking
- Environment/Recycling
- Inventory/Warehouse Management
- Operational Efficiency
- Logistics/Supply Chain

- Payment Systems
- Security and Access Control

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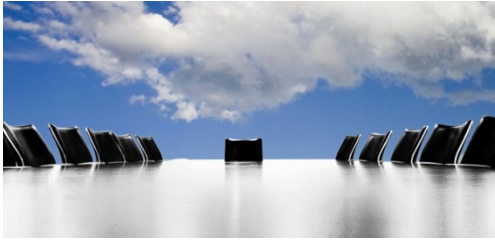


Who is creating the “standards”

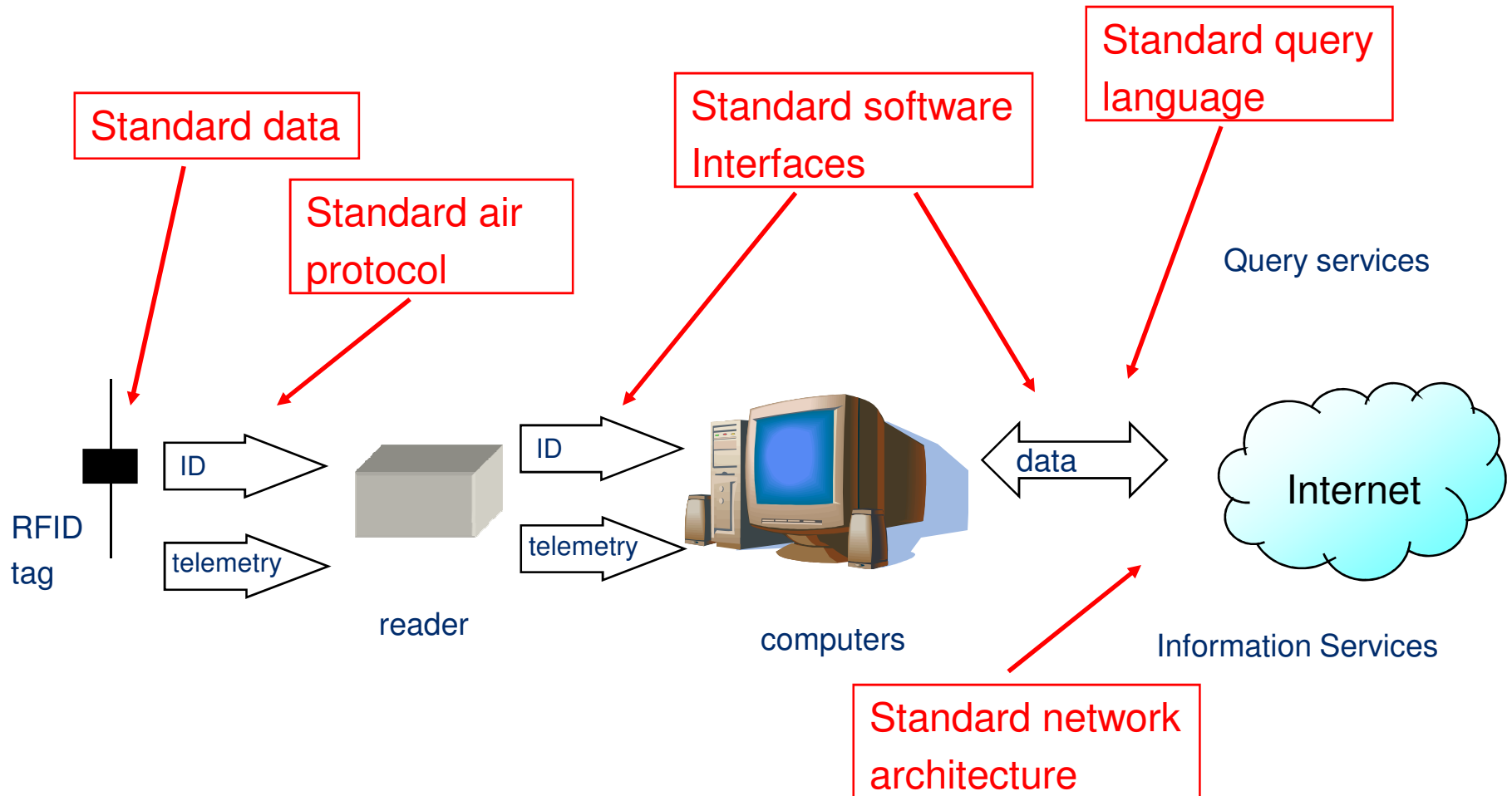
- International
ITU, ISO, IEC
- Regional
CEN, ETSI, CENELEC, FCC, ...
- National
UK, Europe, US, Japan, China
- Industry Groups
Automotive, Grocery, Defence, Healthcare.....
- Solution Providers
- Other
GS1, EPC, IETF, uID....

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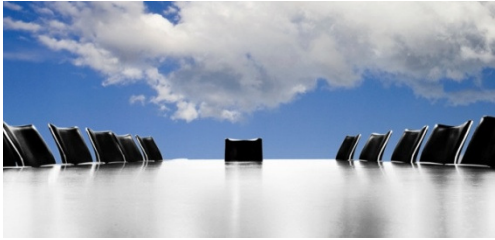


Where are standards required?

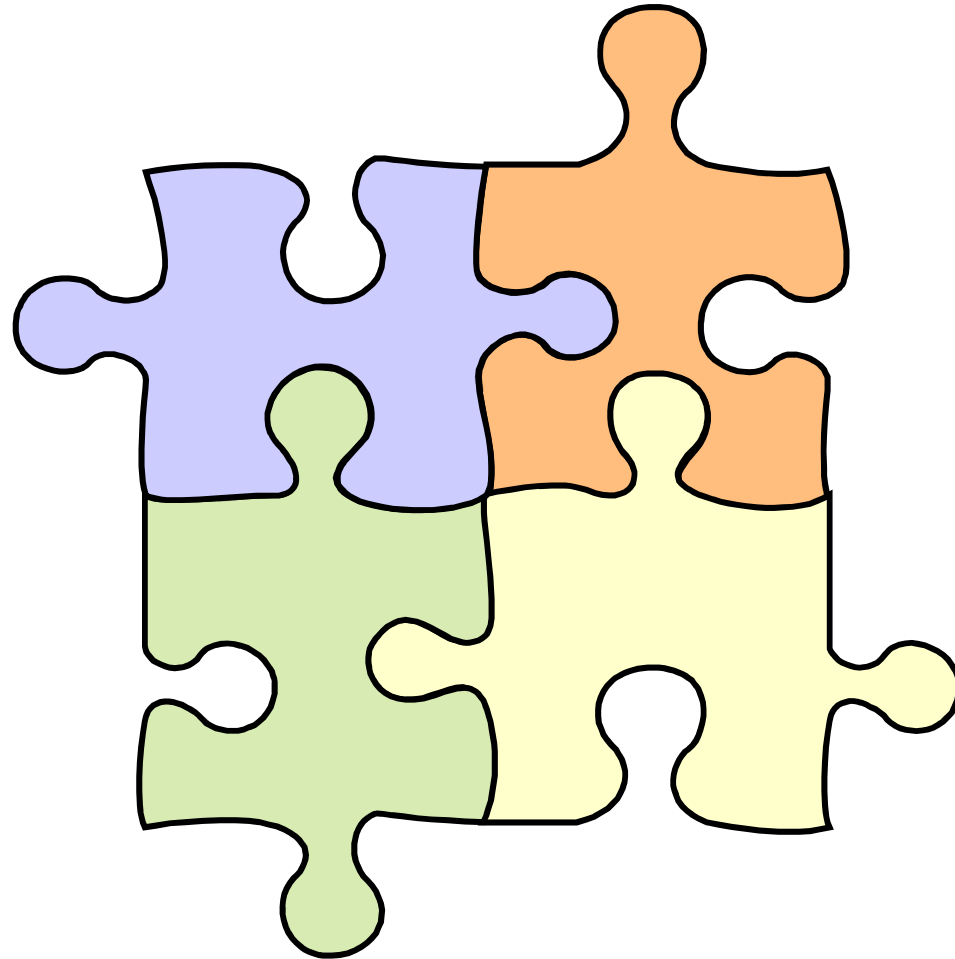


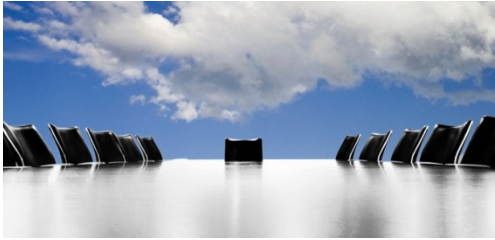
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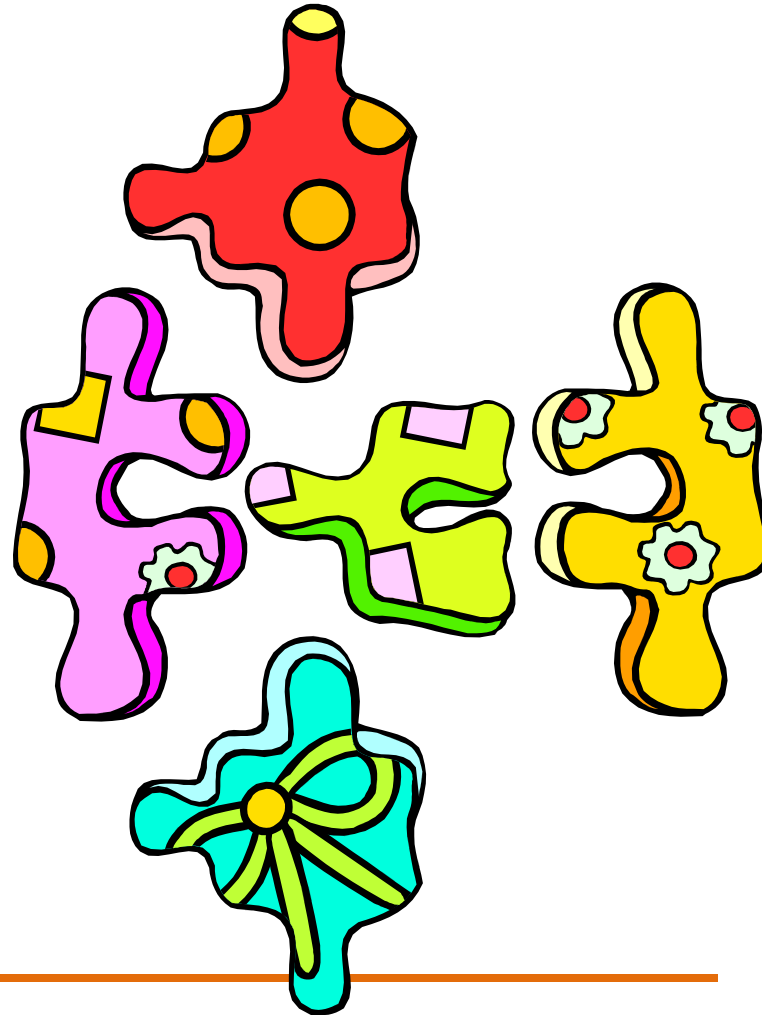


RFID Standards Need to Fit Together





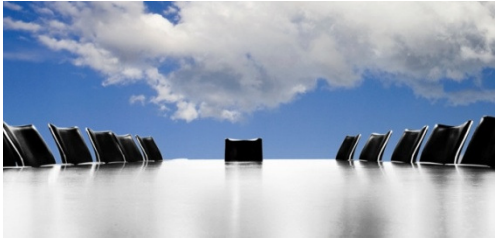
But will they?





Interoperability examples

- The EPCglobal UHF Gen 2 protocol is equivalent to ISO/IEC 18000-6 part C
 - It can be used for non-GS1 applications
 - All users benefit from this interoperability
- ETSI 302 208 specifies the way RFID shall be used in the UHF band in Europe and beyond
 - This standard benefits ALL users
 - Applied in Europe and other countries / regions



GRIFS Approach to Co-ordination

- State of the Art Report and Database
- GRIFS Forum
 - Co-ordinate standards development organisations
 - Avoid duplication, incompatibility and gaps
 - GRIFS workshops to agree how to organise the Forum

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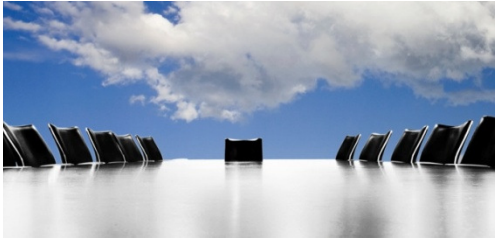


GRIFS “State of the Art Report”

- Overview of what standards are in place or in development
- Highlight areas where co-operation would be particularly valuable
- Highlight the organisations that should be involved in the GRIFS forum

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State of the Art – early indications (1)

- EPCglobal and ISO
- 13.56, RFID, Smart Cards and NFC
 - Impact of 18000-3 Mode 3 tags
 - NFC work around security and privacy
 - Mobile phone data capture – Barcode 2D, 1D, UHF, HF
- Sensors ISO and IEEE
- Frequency alignment
 - Exploit move from analogue to digital TV
- Health and Safety
 - RFID link to Electronic Medical Devices



State of the Art – early indications (2)

- A database of what standards are in place or under development.
 - What RFID related standards are available that are relevant to the application I am developing?
 - What standards are relevant to asset tracking in the oil and gas industry?
 - At what stage is the proposed standard for sensor commands and responses?
 - Are any other standards organisations working in this area?

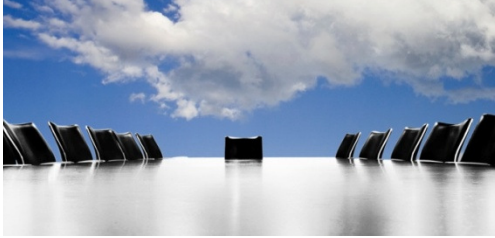


GRIFS Forum

- The main objective of the project is to create a Memorandum of Understanding based forum to enable relevant standards organisations to co-ordinate their activities.
- Based on the Electronic Business MoU between IEC, ISO, ITU & UN/ECE
- **Principles**
 - Focus on facilitation of effective standardisation
 - Recommend action to participant organisations
 - No change to existing standards development process
 - Decisions by consensus
 - Agree to share plans and activities
 - Involvement of user groups
 - Agree to maintain standards database

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Potential Forum Benefits

- Sharing of expertise and of resources
- Access to broader user base
- Broader more widely applicable standards
- Fewer gaps or incompatibilities in standards

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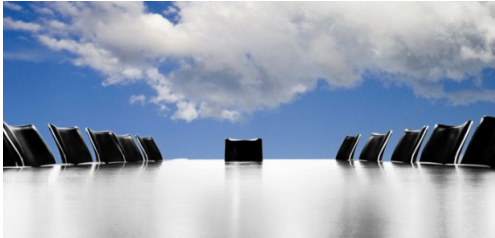


GRIFS Workshops

- Gather information on which organisations should be invited to participate in the forum
- Gather feedback on the form of organisation for the forum
- Gain commitment to the need for a co-ordinating forum through highlighting areas where co-ordination is particularly critical and/or where urgent action is required.

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We need your input

- Is there a need for co-ordination of RFID standards?
- Which RFID standards areas are most in need of co-ordination?
- Which standards organisations need to be involved?
- How should user/industry organisations be involved?
- Is the GRIFS Forum, as described in the MoU, the right approach. If not how should it be changed?
- Would your organisation wish to be involved in the Forum?
 - Please send your comments to info@grifs-project.eu

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Thank you for your attention!

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