

CE RFID Coordinator

Dr. Gerd Wolfram
MGI METRO Group Information Technology GmbH
Metro-Strasse 12
40235 Düsseldorf, Germany
Phone: +49 211 9 69-2100
E-mail: gerd.wolfram@mgi.de

CE RFID Secretariat

Peter Gabriel
VDI/VDE Innovation + Technik GmbH
Steinplatz 1
10623 Berlin, Germany
Phone: +49 30 310078-206
E-mail: gabriel@vdivde-it.de



Partners



RFID Reference Model

Established by CE RFID –
a coordination action project funded
by the European Commission
within the Sixth Framework Programme



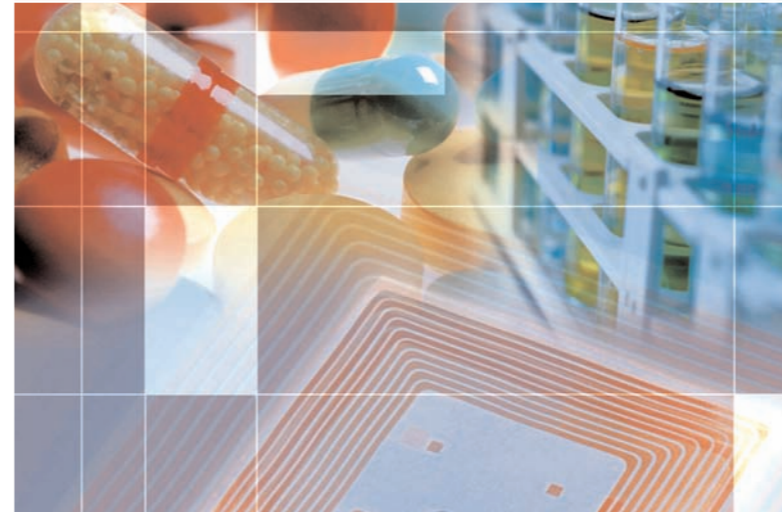
Need for structuring discussion on RFID

The RFID Reference Model has been developed within the project CE RFID to structure the discussion on RFID and to allow depicting research results accordingly.

The term "RFID technology" sums up a vast field of varying applications leading to specific requirements concerning RFID systems.

RFID applications differ in:

- ▶ Existence of standards
- ▶ Potential number of participants of RFID systems
- ▶ System complexity
- ▶ Technological requirements
- ▶ Potential reference of tag data to people
- ▶ **Categorisation of applications necessary**



About CE RFID

Coordinating European Efforts for Promoting the European RFID Value Chain

RFID is an outstanding key technology for Europe. Its companies and research institutes are currently at the top of the field when it comes to tapping the economic potential of RFID technology.

European RFID users and vendors have launched the initiative "Coordinating European Efforts for Promoting the European RFID Value Chain" (CE RFID). CE RFID aims at improving the market conditions for RFID technology and at strengthening the technology development in Europe. CE RFID seeks to inform policy makers about the requirements for a favourable regulatory environment in Europe.



The RFID Reference Model

- ▶ helps to structure the discussion on RFID
 - ▶ gives the first and only comprehensive overview on RFID applications
 - ▶ clusters more than 100 examples of RFID use cases into eight RFID application fields with 41 subcategories
 - ▶ differentiates RFID application fields as "mainly object tagging" and "tagging with reference or potential reference to individuals"
 - ▶ will be regularly updated and adapted to future applications
 - ▶ is already being used at the University of Freiburg for a survey on RFID use in SMEs
- A detailed description and the template can be downloaded from the project website www.rfid-in-action.eu/public/rfid-reference-model

RFID-Application Field	Mainly Object Tagging			Tagging with Reference or Potential Reference to Individuals				
	A. Logistical Tracking & Tracing	B. Production, Monitoring and Maintenance	C. Product Safety, Quality and Information	D. Access Control and Tracing & Tracing of Individuals	E. Loyalty, Membership and Payment	F. eHealth Care	G. Sports, Leisure and Household	H. Public Services
Subcategories	AA.- Inhouse Logistics AB.- Closed Loop Logistics AC.- Open Logistics AD.- Postal Applications AE.- Dangerous Goods Logistics AF.- Manufacturing Logistics	BA.- Archive Systems BB.- Asset Management (incl. Environmental Monitoring) BC.- Facility Management BD.- Vehicles BE.- Airplanes BF.- Automation/Process Control BG.- Food and Consumer Goods	CA.- Fast Moving Consumer Goods CB.- Electronic Goods CC.- Textile Goods CD.- Fresh/Perishable Foods CE.- Pharmaceutical CF.- Customer Information Systems	DA.- Ticketing DB.- Access Control System DC.- Animal Tracking DD.- Personal Tracking	EA.- Loyalty Cards EB.- Membership Cards EC.- Contactless Banking Cards ED.- Payment and Advertising via mobile phones	FA.- Assistance for Disabled FB.- Hospital Management FC.- Implants FD.- Medical Monitoring FE.- Smart Implants	GA.- Sports Applications GB.- Rental Systems GC.- Smart Games GD.- Smart Home	HA.- Public Service Maintenance HB.- Road Tolling Systems HC.- Banknotes HD.- ID Cards and Passports