

CERP: Cluster of European RFID Projects

<http://www.rfid-in-action.eu/cerp>

# Coordinator terms of reference

[Patrick.Guillemine@etsi.org](mailto:Patrick.Guillemine@etsi.org)

New CERP coordinator since 13/02/08 during the 5th CERP Meeting

Presentation updated on 9 June 2008 (v8)



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# Introduction



CE RFID project coordinating the Cluster on European RFID Projects (CERP), will end in September 2008 (for more details see <http://www.rfid-in-action.eu>)

During its 5th meeting on 13 February 2008, CERP appointed a new coordinator.

The CERP Cluster members unanimously approved the nomination of Patrick Guillemain from ETSI and requested that he provide written terms of reference especially regarding the RFID positioning versus standardization activities.

Mr. Guillemain is already involved in 3 new Projects GRIFS, CASAGRAS and CuteLOOP and is also a member of the EU RFID Expert Group.

## Objectives of CERP, the continuity



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On 15 January 2007, when the RFID Cluster was created the statement was:

“Establishing synergies between RFID research projects is a prerequisite for a competitive industry and for a secure, safe and privacy-preserving deployment in Europe”

<http://www.rfid-in-action.eu/internal/minutes/aitpl-book> ‘AITPL Dec 2007’

« In order to bundle the increasing research activities around radio frequency devices (RFID) as a specific technology of the “Internet of Things” framework, the European Cluster of RFID projects (CERP) was added in early 2006. This cluster mainly addresses basic issues of the communication, e.g. contributions to the standardization, in general as well as for specific application domains. »

# Objectives



The primary objectives of existing EU-funded RFID projects in CERP are to

- Facilitate networking of different European projects
- Coordinate research activities and establish synergies between projects
- Assure coherence of work in Europe
- Leverage expertise, talents and resources

In February 2008, 5 new EU-funded RFID projects were added:

- ASPIRE, CASAGRAS, CUTELOOP, EURIDICE and GRIFS with the « Internet Of Things » context, international dialogue (global RFID forum), cooperation and RFID standardization. iSURF and LEAPFROG are the latest newcomers. EU-IFM is a new candidate.

## 20 Research Projects in CERP



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The CERP coordinates the actions between ~20 EU RFID research projects and AITPL Cluster:

AMI-4-SME, ASPIRE, BRIDGE, CASAGRAS, CE-RFID, CoBIS, CuteLOOP, DYNAMITE, *EURIDICE*, GRIFS, INDISPUTABLE KEY, iSURF, PRIME, PROMISE, SMART, SMMART, STOLPAN, STOP, TraSer and LEAPFROG  
(some projects in this list are closed, closing or new)

21st project EU-IFM...

# Recognition of CERP 2007 achievements



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- CERP Working Paper on future RFID Research Needs <http://www.rfid-in-action.eu/cerp/cerp-working-paper/working-paper-on-future-rfid-research-needs>
- CE RFID Standard roadmap (as a key starting document for GRIFS and CASAGRAS) <http://www.rfid-in-action.eu/public/final-reports/workpackage-3/>
- [www.rfid-in-action.eu](http://www.rfid-in-action.eu) website with login, brochure, flyer, mailing list, collection of projects, workshop and fair participation to promote CERP
- CERP cluster meetings organization, location and frequency, collaboration room on the website and dissemination of information, yearly Cluster report, liaison with AITPL cluster and ETP EPoSS
- The CE RFID will continue the website [www.rfid-in-action.eu](http://www.rfid-in-action.eu) until end 2008 and then another project has to take over it
- Previous coordinator (G Wolfram and B Gampl) ensure the handover to the new coordinator (P Guillemin) until the end of CE RFID for the continuity of the Cluster

# CERP Cluster organization



- New Cluster coordinator: [Patrick.Guillemine@etsi.org](mailto:Patrick.Guillemine@etsi.org) ETSI [www.etsi.org](http://www.etsi.org)
  - Thanks to past CE RFID project, [Gerd.Wolfram@mgi.de](mailto:Gerd.Wolfram@mgi.de) and [Birgit.Gampl@mgi.de](mailto:Birgit.Gampl@mgi.de) from MGI METRO Group Information Technology GmbH
- After CE RFID, the coordinating project becomes GRIFS <http://www.grifs-project.eu> a two years supporting action project providing the necessary resources to support CERP in 2008 and 2009.
  - ETSI (Patrick Guillemine) is also involved in 18 month CASAGRAS project and 3 years CUTELOOP project.
- The Secretary from the European Commission
  - Florent Frederix
  - Peter Friess (backup)

# New proposals for 2008 from the CERP Members?

- Florent Frederix launched a new scope discussion about a Cluster on the Internet Of Things/Objects? New title CERP/IoT?
  - CERP6 cerp05-f-frederix-iot-ioo-cerp-scope-discussion-ff.ppt
- ?Position papers
- Detailed handover
- TURBOMECA input received in the list
  - CER6P workscope discussion paper 20080222JLB v2.ppt
- GS1 input and reaction received
  - CERP6 comments-on-cerp-title-scope-and-terms-of-reference.pdf



# Background information



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- Biography
- What is ETSI ?
- Why is ETSI involved in RFID standardization in which committees ?
- RFID interoperability ?
- RFID networks, a strategic topic for ETSI

# Coordinator Biography related to RFID



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Patrick Guillemin is responsible within the ETSI Secretariat for development, co-ordination and management of new standardization initiatives including the Internet of Things, RFID and related fields . Patrick has 21 years of experience in IT and Telecommunications Project Management and 14 years in Standardization. Patrick is ETSI representative in the EU RFID Expert Group. He was previously ETSI Technical Officer in charge of ETSI's RFID standardization committees, worked previously for 2 years as ETSI Plugtests™ Technical Manager and was ETSI IT System Group Manager & Security Technical Manager. With 25 Plugtests events managed in 2 years, he organized the first ETSI RFID Plugtests in March 2005. Patrick supported the creation of the new ETSI TC GRID. In parallel, he was Software Engineering Teacher at Nice University (France) for 14 years. Between 1985 and 1993, he worked as CIO for the French Stock Exchange in Paris and for Digital Equipment Corporation in Sophia Antipolis as Project Manager and consultant.

Patrick has an Engineer Dipl. from the French University ENSAM (Ecole Nationale des Arts et Métiers) and a Master Degree in Software Engineering



## ETSI – a global standards body

<http://www.etsi.org>

Sophia Antipolis - France

- ETSI was established 1988 as a European standardization body and retains European responsibilities.
- ETSI's Members are global players & standards are adopted worldwide
- Over 20% of ETSI's ~700 members have no established operations in Europe
- Many of the other 80% are headquartered outside Europe
- Global success stories like GSM, 3G, DECT, DVB, TETRA ...

# ETSI: a 'must consult' body



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- Supporting European telecoms regulation
  - Harmonised Standards in support of R&TTE Directive
- Supporting European Frequency Harmonization
  - Harmonised Standards for European frequency allocations
  - Produced by ETSI ERM TG28 and TG34 committees
- World leader in creating cryptographic algorithms and protocols to prevent fraud, unauthorized access and privacy
- Producing ICT standards for global use
- ETSI is a unique resource to meet European and Global standardization requirements for the Internet of Things

# ETSI Technical Bodies in RFID Networks?

- TC ERM: RFID Radio Interface and Spectrum Management
  - TG28 SRD (Short Range Devices) at all frequencies
  - TG34 UHF RFID
  - TG30 Medical Devices ...
- EP EHEALTH
- TC SCP Smart Card Platform (NFC and SIM/USIM)
  - 3GPP + links with NFC Forum, ECMA
- TC ITS: Intelligent Transport Systems
- TISPAN/NGN: Next Generation Networks, IMS, IPTV
- Security, Plugtests Service, Workshops, Global dialogue...

# RFID Interoperability?



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- Most importantly, the development of standards should follow established best practices for engineering design:
  - Establish and analyse requirements
  - Develop a functional model and architecture
  - Specify the detailed design
  
- RFID could not take off because of
  - The non application of these best practices
  - The lack of trust in the technology (security by design)
  - Too many fragmented landscape of non interoperable proposals

This is changing!

# RFID Networks in action



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- Participating in EU RFID Initiatives
  - EU RFID Expert Group
  - 3 EU RFID Projects GRIFS, CASAGRAS, CuteLOOP
  - CERP (EU RFID Cluster) and EPoSS ETP
  
- ETSI GA Strategic Topic, ETSI Board RFID Ad Hoc Group, Workshops
  - The Internet Of Things (RFID) is a 2008 ETSI Strategic Topic like M2M
  - Future challenges for the industry:
    - Security, privacy, of tags and data in network
    - Networking of trillions of objects
    - Handling huge volumes of transactions and information
    - Specific applications (hospital vs factory)



*Thank you for your attention*  
*[patrick.guillemin@etsi.org](mailto:patrick.guillemin@etsi.org)*  
6th Cluster Meeting