Minutes of the 3rd PRIAM Meeting – June, 20-21 2007, Rennes

Only the main decisions taken during the final discussion are presented here. The programme of the meeting is attached as Annex 1 (the corresponding slides to be found on PRIAM web site) and Annex 2 is an outline of the PRIAM case study elaborated during the meeting ("On the move" scenario).

1. Plans for the next semester, collaborations

- Inria-Aces:
    - o In collaboration with Inria-Ares : final version of the state of the art on technologies for ubiquitous computing (including both service enabling technologies and privacy protection technologies, considering individual solutions as well as architectures).
    - o Opportunity to use TPM for privacy protection (e.g. to guarantee the integrity of code in charge of checking privacy policies).
    - o Potentially in collaboration with Inria-Popart: specification of the guarantees brought by TPM.
    - o In collaboration with Inria-Popart: study of potential problems introduced by TPM w.r.t. privacy protection: use of unique numbers to identify individuals (comparison with MAC or Bluetooth addresses), possibility of discrimination based on identity or type of hardware or software environment.
    - o Study of the organizational issues in RFID technology deployment.

- Inria-Ares:
    - o In collaboration with Inria-Aces : final version of the state of the art on technologies for ubiquitous computing (see above).
    - o Study of solutions for anonymisation and identity management (or pseudo-anonymity) suitable for the ambient intelligence context (distributed and open systems: no fixed number of actors, scarce resources, etc.).

- Inria-Popart:
    - o In collaboration with Inria-Aces: potential problems introduced by TPM w.r.t. privacy protection (see above).
    - o Specification of privacy requirements and languages suitable for the ambient intelligence context and consistent with legal requirements.
    - o In collaboration with Univ. Saint-Etienne: suggestions for evolutions of the legal framework to make it effective in the ambient intelligence context.

- Univ. Twente:
    - o In collaboration with Inria-Ares : integration of trust management, audits (to enhance trust) and negotiation mechanisms in the formal framework for expressing privacy policies.

- o Potentially in collaboration with Inria-Popart: consideration of "a priori" as well as "a posteriori" controls (separation of concerns between a "neutral" specification language and a particular – a priori or a posteriori – implementation). Relationship with the notion of liability (decision to perform an action without having secured the necessary rights amounts to take liability for such action).

- Univ. Saint-Etienne:
  - o Study of the effectiveness of law and application to privacy protection.
  - o Status of the French "Code de la santé publique" w.r.t privacy protection and lessons to be learned in PRIAM.
  - o In collaboration with Inria-Popart: suggestions for evolutions of the legal framework to make it effective in the ambient intelligence context.

NB: all partners will strive to use the "On the move scenario" sketched in Annex 2 to illustrate his contributions.

2. Dissemination

- "Ubiquitous Privacy Protection", to be presented at UBICOMP'2007 Privacy Workshop (September 16-19, PRIAM collective paper).
- Workshop on the "effectiveness of law" to be organized by PRIAM in September or early October in Lyon (Joël: scientific chair, Stéphane local chair).
  Potential speakers: Joël Moret-Bailly, Thierry Kirat (CNRS, Paris IX Dauphine, economical approach), X- PhD student (Paris 13, French DADVSI law) and O Rozen (public policies).
  Organization: 10h-17h. Two main sessions of 2 hours each, followed by a brainstorming of about one hour. Morning session (2 talks of 1/2h each followed by discussions). Afternoon session (ditto). General themes: methodologies for efficiency evaluation in each discipline, applicability to legal issues, limitations, commonalities.
- Presentation of PRIAM at the ARC conference in Rennes (1-2 October, Daniel)
- Book on pervasive systems, to be published soon (Ciaran co-author).

3. Next meeting (Lyon – December, 6-7)

Annex 1 Programme

June 20

9h15-10h15: WP1 - state of the art on legal issues and lessons to be learned
          (both for the technological and the legal side)
          Daniel Le Métayer
10h15-11h15: invited talk - European Directive 95/46/EC:
          transposition and application in France
          Claire Levallois Barth (Télécom, Paris)
11h15-11h30: coffee break
11h30-12h30: WP1 - on the effectiveness of regulation
          Joël Moret-Bailly

12h30-14h00: Lunch break

14h00 - 15h00: Discussion on legal issues and feedback from external participants
15h00 - 16h00: WP2 - formal models and languages for privacy and proposal
          for an a posteriori control model
          Marnix Dekker
16h00 - 17h00: WP3 - review of privacy issues in ambient computing systems
          Ciaran Bryce and Frédéric Le Mouël
17h00 - 18h00: General discussion and feedback from external participants

June 21

9h15-10h: case studies (presentation and discussion)
10h-12h30: brainstorming on future work and contributions within PRIAM
          (the PRIAM common approach, individual and joint contributions, etc.)

12h30-14h00: Lunch break

14h00-15h00: parallel discussions (by WP)
15h00-16h00: wrap up, conclusions, plan for the next months

Annex 2 PRIAM Case Study
On the Move Scenario

Services
- Location based services (commercial, traffic, parking places, bus localization and schedule, taxi localization, bicycle or car localization for local public renting systems, organization of car sharing facilities, etc.)
- Smart communication services (publication of preferences: hotel, restaurant, bar, shop, friend finder, encounters, etc. – possibly with automatic translation)
- Environment monitoring (temperature, light, music, etc.)
- Access control (car key, hotel key, toll, bus ticket, parking place, etc.).
- Localization of stolen or misplaced objects (bicycle, car, camera, luggage, etc.)
- Passenger and luggage tracking at the airport or train station (boarding time)
- Checking the origin of goods to detect counterfeited products
- Recording of driving conditions for insurance companies (personalized conditions) : speed, weather, duration, road, etc.

Devices
- Sensors: biometric readers, temperature sensor, RFID readers
- Actuator: door locker, gate actuator, temperature controller, light controller
- Small devices: RFID tags
- Personal devices: mobile phone, GPS devices
- Server: public service center, commercial service centers, Web server