PRIPARE

PReparing Industry to Privacy-by-design by supporting its Application in REsearch

Deliverable D3.1

Training Seminar Material

Due M15 – December 2015

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Executive Summary

In this deliverable, we report on the preparations we conducted for the PRIPARE training workshop that is going to be held in March 2015 in Ulm, Germany in fulfilment of Task T3.3. The workshop has the aim to present the PRIPARE methodology to an audience of software and system engineering professionals from industry and research institutions, to trial the teaching material for professionals created in WP4, to disseminate our project results, and last but not least to solicit feedback from the audience so we can enhance our teaching material and approach. Furthermore, we will use the workshop opportunity to offer our expertise to participants, especially those that have immediate privacy problems in their research or development projects. In doing so, we hope to also positively affect privacy protection in EU FP7 and H2020 projects.

In this deliverable, we first provide an overview over the planning process for the workshop, discuss the envisioned agenda that aims to take participants through a complete privacy engineering cycle, and finally discuss the material that is going to be used during the workshop.

1 Introduction

Task T3.3 foresees the organization and conduction of the second PRIPARE workshop as a training event for professional software and system engineers. The workshop has the aim

1. to present the PRIPARE methodology to an audience of software and system engineering professionals from industry and research institutions,
2. to trial the teaching material for professionals created in WP4 in a realistic setting and present multiple modules in a complete multi-day event,
3. to disseminate our project and its results to an industrial and academic audience, and last but not least
4. to solicit feedback from the audience so we can enhance our teaching material and approach.
5. Furthermore, we will use the workshop as an opportunity to offer our expertise to participants, especially to those that have immediate privacy problems in their research or development projects. In doing so, we hope to also positively affect privacy protection in EU FP7 and H2020 projects.

Participants will benefit from attendance in the workshop by gaining a broad knowledge on privacy in general and the PRIPARE privacy engineering approach in specific. Beyond, they will also conduct practical exercises to learn how to come up with a privacy-friendly system design in a complex and challenging use case.

The objective of this deliverable, as described in the DoW, is to document availability of all teaching materials produced in WP4 that is necessary for the workshop. Material typically includes slide sets, handouts, exercises, and master solutions. We will not reproduce the material presented in deliverable D4.2 herein but instead provide an overview on which material is going to be used in what order. Beyond, we are going to present the material of the opening session of the workshop, as this is unique to the workshop setting and not part of the WP4 materials. However, it provides a good overview over the workshop, its aims and approach.

In the following, we will first introduce the rational leading to the workshop before then addressing in detail the elements of the workshop and the expected outcome.

2 Workshop Preparation

Since October 2014, we are disseminating our Call for Participation via a number of channels like personal emails, emails to project coordinators, and dissemination via email lists.

Through presentations and hands-on training participants will become familiar with the state-of-the-art in privacy by design (PbD), in both a theoretical and practical manner. Based on this training, participants will acquire:

- a knowledge of privacy requirements and legal frameworks,
- a broad overview of available state of the art PETs,
- the ability to apply best practice materials in their projects, systems, technologies and organisations, and
- will receive training materials to disseminate to colleagues.

The workshop will have a duration of 1.5 days and will take place at Ulm University in Germany on March 9th/10th 2015. Registration is on-going. Participation to the workshop will be free of charge. Participation is limited to 40 attendees in order to allow for an interactive event and good support during exercises.

The last day will include a special session where participants can discuss their individual questions with privacy experts.

All participants will be requested to fill-in a feedback form that we will evaluate in order to enhance the PRIPARE methodology and training material.

2.1 Agenda of the workshop

Here we describe the overall structure of the workshop. As mentioned in the introduction the slides and teaching material we will use can be found in the Deliverable D4.2 "Initial Educational Material". We will provide appropriate references later in this text.

The exercises focus on the use case of the anonymous course evaluation as in the ABC4trust project. Optionally the attendants can bring their own use cases with them and work on that instead.

2015-03-09 Day 1		
09:00 – 09:30	**Arrival of Participants**	
09:30 – 10:00	Welcome & Introduction of Participants (slides attached to this deliverable)	Frank Kargl, Ulm University
10:00– 11:00	Privacy Motivation & Introduction (Material see Sec. 5.1 of D4.2)	Claudia Roda and Susan Perry, American University of Paris
11:00 – 11:30	Break	
11:30 – 13:00	Data Protection and Privacy Principles (Material see Sec. 5.2 of D4.2)	Pagona Tsormpatzoudi, KU Leuven
13:00 – 14:00	Lunch	
14:00 – 15:00	Practical Exercise Part 1 (Material see Sec. 5.2 of D4.2)	Pagona Tsormpatzoudi, KU Leuven
15:00 – 16:30	Privacy Enhancing Technologies (Material see Sec. 3.9 of D4.2)	Carmela Troncoso, Gradiant
17:00 – 19:00	Guided tour of Ulm	
19:00	Dinner	Location to be announced

2015-03-10 Day 2		
09:00 – 09:30	Arrival of Participants	
09:30 – 10:30	PRIPARE Privacy Methodology I (Material see Sec. 3.1 of D4.2)	Antonio Kung, Trialog
10:30 – 11:00	Break	
11:00 – 12:00	PRIPARE Privacy Methodology II (Material see Sec. 3.1 of D4.2)	Nicolás Notario, Atos
12:00 – 13:00	Practical Exercise Part 2 (Material see Chap. 3 of D4.2)	Henning Kopp, Ulm University
13:00 – 14:00	Lunch	
14:00 – 16:00	Discussion of questions	PRIPARE experts

Throughout the workshop, we will focus on a consistent use case for illustration and exercises. The use case will be derived from the EU-Project ABC4Trust and will address the scenario of anonymous course evaluation in a university course. We use this as a coherent example by which to introduce PRIPARE's privacy engineering approach.

While we advise to work on this example during exercises, they may also decide to work on their own problems and settings and receive advise from our experts.

The workshop will begin with a welcome and introduction section where the workshop's aims and goals, the workshop structure and the presenters will be introduced. Participants will have the opportunity to also introduce themselves and their motivation for attending the workshop. In this first session, we will also introduce the course evaluation scenario that will guide us through the rest of the workshop.

In the second session, "Privacy Motivation & Introduction", AUP will provide a general understanding of the problems of privacy. They will present the seven types of privacy, privacy principles and the connection from privacy principles to human rights. This section should raise attention and deepen understanding on privacy and the need for privacy in human societies.

In the following session, KUL will address "Data Protection and Privacy Principles". This lecture will cover the legal aspects of privacy and data protection. The purpose is to educate professionals about the legal limits and requirements that any privacy solution needs to maintain.

After those three sessions, participants will be requested to perform a first set of exercises, which addresses required types of privacy and data protection for the course evaluation use case. As a result, a set of legal and factual privacy and data protection requirements for the course evaluation use case will be created.

In the "Privacy Enhancing Technologies" session, Gradiant will introduce the concept of PETs, a classification and examples of state of the art PET technologies and especially the concept of attribute-based credentials which can be used in the course evaluation scenario to design a privacy-friendly system.

During the "PRIPARE Privacy Methodology I "and II sessions, Trialog and Atos will introduce the PRIPARE methodology including an application of it to a sample use-case.

Familiarity with the PRIPARE methodology creates the basis for the final exercise session where participants will try to create a system design for a privacy-preserving course evaluation system by applying our methodology.

The final session provides an optional timeslot that allows participants to discuss privacy issues and questions relevant to their projects. The participants will be asked in advance to prepare those questions so that we can be well prepared to address their specific needs. We expect questions to come from daily routine of research and industry projects and hope that PRIPARE can have an immediate impact on their results.

In the end, participants will have acquired practical knowledge how to apply the PRIPARE methodology to design privacy-friendly ICT systems.

3   Conclusions and Workshop Follow-Up

D3.1 presents the status of preparation of the training workshop as foreseen in Task 3.2. As discussed, all training material is prepared and the preparation is proceeding as planned. Until the workshop, we will continue to advertise the event in order to ensure strong participation.

The workshop will the starting point for the Task 3.4 follow-up activities where PRIPARE members will interact with partners from projects selected in Task 3.1 to consult them on their privacy challenges by applying the PRIPARE methodology. Those activities will start in April 2014.

Teaching material is prepared and submitted as part of D4.2.