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Users' perspectives of redacting medical documents

Abstract: With the continuous advancements of Cloud computations, privacy and security research becomes of high importance of the design of future Cloud solutions. An EU project "PrismaCloud –Privacy and Security Maintaining services in the Cloud "(Horizon 2020) aims to develop cryptographic tools, mechanisms and techniques for secure services for the Cloud. PrismaCloud aims to protect data security and user privacy primarily.

One of the tools PRISMACLOUD is developing which involves data minimization and enhancing user's privacy is called malleable signatures. Malleable signatures is a type of digital signature that allows redactions (following redaction rules) of documents while maintaining the validity of the signature. Since the tool is developed to be used by lay users, we have focused on empirical means to investigate the usability of the tool through our low-fidelity mock ups. The context of our mock-ups is eHealth, therefore medical documents redaction is the focus for prospective patients and doctors.

We are conducting focus groups workshops and walkthrough interviews to evaluate the mock-ups. In my talk, I will present the use-case scenario, eHealth context, and show mock-ups that we designed. Furthermore invite audiences to participate in another mock-ups focus group.