CREDENTIAL
Secure Cloud Identity Wallet

You are what you keep!

5th Newsletter – June 2018

The CREDENTIAL Newsletter series keeps you informed about our project's progress, results, and events. Specifically, this issue provides you with an update of our dissemination and exploitation activities, the status of our pilots, recent and upcoming workshops and conferences, and an overview of recent publications within our project.

Impressions from InfoSecurity Europe

CREDENTIAL is now in its last phase where most development activities have been finished, and the piloting phase is currently being finalized and evaluated. Consequently, a major focus now lies on dissemination and exploitation of our results.

After the successful participation at the Cloud Security Expo in 2017, the consortium therefore decided to present our vision and demonstrators at the InfoSecurity Europe event in London this year. The event took place from June 5 – 7, 2018. With about 20'000 attending IT-security professionals and more than 400 exhibitors from the field, InfoSecurity Europe is the region's number one information security event featuring Europe's largest and most comprehensive conference program.

Together with the TRUSTEE Common Dissemination Booster (see also page 3), as well as our liaison project PRISMACLOUD which is also in its final phase, CREDENTIAL organized a booth in the Discovery Zone of the exhibition, where our coordinator and other members from our partner AIT represented our project. Additionally, PRISMACLOUD's coordinator presented the projects' results at the Cyber Innovation Showcase series stage.

Based on numerous discussions with conference attendees, the overall feedback on both, the presentation and the booth, was very positive, and we were able to establish multiple contacts with people from industry, academia, and policy makers.

Overall, we are therefore happy to say that we achieved the main purpose of our

participation: raising awareness of our solutions, informing potential future customers about our tools and products, and setting the base for a successful exploitation after the end of the project.

Pilot Status

The first piloting round with partner-internal and also external test candidates was performed at the beginning of 2018. The participants gave valuable feedback for the further development, ranging from debugging issues over potential additional functionalities to suggestions for better workflows and higher usability.

Recently, our pilot partners – KGH, FOKUS, ICERT, and LISPA – now started the second and final pilot evaluation phase, again consisting of an internal and an external test round, where we aimed for representative sets of test users to maximize the benefit for the project and future product developments.
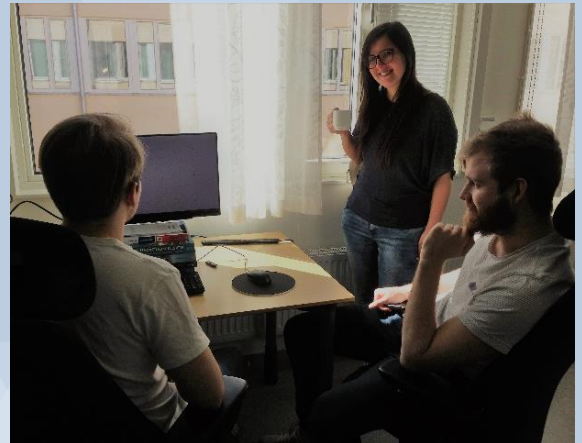
Detailed reports on the piloting phases will be published on our project website soon. Finally, we would like to take the opportunity to thank all test users for their time and feedback!

Publications

The following publications were accepted for publication since the last CREDENTIAL newsletter:

- Farzaneh Karegar, John Sören Pettersson, Simone Fischer-Hübner. **Fingerprint Recognition on Mobile Devices: Widely Deployed, Rarely Understood.** SECPID 2018. Hamburg, Germany, August 27, 2018

- David Derler, Tibor Jager, Daniel Slamanig, Christoph Striecks. **Bloom Filter Encryption and Applications to Efficient Forward-Secret 0-RTT Key Exchange.** EUROCRYPT 2018. Tel Aviv, Israel, April 29-May 3 2018.

- Pasquale Chiaro, Simone Fischer-Hübner, Thomas Groß, Stephan Krenn, Thomas Lorünser, Ana Isabel Martínez García, Andrea Migliavacca, Kai Rannenberg, Daniel Slamanig, Christoph Striecks, and Alberto Zanini. **Secure and Privacy-Friendly Storage and Data Processing in the Cloud**. In: IFIP Privacy and Identity Management 2017. IFIP AICT, Ispra/Italy, Springer

- David Derler, Stephan Krenn, Thomas Lorünser, Sebastian Ramacher, Daniel Slamanig, Christoph Striecks. **Revisiting Proxy Re-Encryption: Forward Secrecy, Improved Security, and Applications**. PKC, Rio De Janeiro, Brazil, March 25-28, 2018.

- Farzaneh Karegar: **Towards Improving Transparency, Intervenability, and Consent in HCI.** Karlstad University Studies, ISSN 1403-8099; 2018:9

- Farzaneh Karegar, Daniel Lindegren, John Sören Pettersson, and Simone Fischer-Hübner. **User Evaluations of an App Interface for Cloud-Based Identity Management.** Advances in Information Systems Development – Methods, Tools and Management, 2018

Common Dissemination Booster

The Common Dissemination Booster is a free service offered by the European Commission, which is dedicated to supporting publicly funded research projects to streamline and improve their dissemination and exploitation activities.

"TRUSTEE – data privacy and cloud security cluster Europe" is a network of eleven FP7 and H2020 projects that is being coordinated by CREDENTIAL and that was selected for benefitting from this service. Together, the participating projects – CREDENTIAL, MUSA, PRISMACLOUD, SecureCloud, SERECA, SPECS, SUNFISH, SWITCH, TREDISEC, UNICORN, and WITDOM – represent more than 90 research and industry partners from 23 countries within Europe and beyond.

The ambition of TRUSTEE is to increase the visibility of leading-edge technologies by providing potential customers a single contact point, thereby overcoming the problem of the very fragmented and widespread landscape of cloud security and privacy initiatives.

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Recent Events

Cyberwatching.eu Concertation Meeting
April 26, 2018, Brussels, Belgium

The Cyberwatching.eu concertation meeting on April 26th in Brussels had the goal to take stock of the current R&I landscape and to identify common themes and challenges for clustering activities. With a strong EC presence, it was a great opportunity to discuss with other projects, get noticed and provide input for the future research landscape within cybersecurity.

Christoph Striecks (AIT) gave a CREDENTIAL lighting talk in the break-out session "Foundation technical methods and risk management for trustworthy systems". The main idea of this meeting was to bring projects in cybersecurity together and find collaboration opportunities. Christoph had the chance to discuss with many other interesting projects, get informed about the future strategy of the EC and discuss with other experts the future landscape of cybersecurity research.

Further events

Apart from these, CREDENTIAL members have presented our results in numerous other events since the last newsletter, including:

- January 12, 2018, Zurich, Switzerland: David Derler from TUG presented recent results at the Real World Crypto Symposium.

- January 31, 2018, Athens, Greece: OTE presented our project in the H2020 Project Clustering Workshop organized by the H2020 project ReCRED.

- March 26, 2018, Rio de Janeiro, Brazil: AIT presented their research results at the Public Key Cryptography conference.
- March 28, 2018, Berlin, Germany: Prof Kai Rannenberg from GUF held a presentation on privacy and data flows in the Internet of Things at Daimler-und-Benz-Stiftung within the "Vorträge im Haus Huth" series.

Upcoming Events

Security, Privacy, and Identity Management in the Cloud – SECPID 2018
August 27, 2018: Hamburg , Germany

After the success of the previous years, CREDENTIAL, its liaison project PRISMACLOUD, and the DPSP Cluster decided to organize a third Workshop on Security, Privacy, and Identity Management in the Cloud, which will be held in conjunction with the 13th ARES Conference in Hamburg.

13th International IFIP Summer School on Privacy and Identity Management
August 20-24, 2018: Vienna, Austria

The IFIP Summer School takes a holistic approach to society and technology and support interdisciplinary exchange. In particular, participants' contributions combine technical, legal, regulatory, socio-economic, social or societal, political, ethical, anthropological, philosophical, or psychological perspectives. The summer school, which for the third time will be supported by the CREDENTIAL project, is hosted by AIT in Vienna.

Key Message

- CREDENTIAL and PRISMACLOUD researchers were requested to prepare the first working draft for the jointly initiated ISO standard on "Redaction of Signed Data using Asymmetric Mechanisms".
- The General Data Protection Regulation became effective as of May 25, 2018 – a good reason to check our website on how CREDENTIAL can safeguard your personal data!

Contact Details and Meta Data

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Call: Digital Security: Cybersecurity, Privacy and Trust
Topic: DS-02-2014 Access Control
Type of Action: Innovation Action
Duration: 36 months
Start Date: 01.10.2015
Requested EU Contribution: ~6.0M €
Coordinator: AIT Austrian Institute of Technology GmbH