

## MAPPING App competition award ceremony

March 14, 2016, Hannover

On 14 March 2016 the [MAPPING project](#) successfully concluded the [Privacy via IT Security App Competition](#) with a highly anticipated Award Ceremony at the CeBIT 2016 exhibition. The two-hour event included key-notes from distinguished guests on topics related to privacy as well as demonstrations of the three winning proposals. The programme was concluded by the announcement of the competition's overall winner.

The final ranking of the MAPPING Privacy via IT Security App Competition:

### 1st place: OmniShare (<https://sug.aalto.fi/projects/omnishare/>)

How secure is your data in the cloud? To mitigate the risks of a cloud data breach or insider threat, various solutions encrypt data on-device before uploading it. But then how do you decrypt this data on a different device or share it with a friend? Deriving keys from the user's password is insecure. OmniShare solves this problem by combining strong client-side encryption with secure yet intuitive key distribution mechanisms. Secure cloud storage just became usable!

Competitor: A collaboration between the Secure Systems Group at Aalto University and the System Security Lab at Technische Universität Darmstadt.

### 2nd place: MIA – My Identity App (<http://www.mia.at>)

“My Identity App” is the digital identification system, which brings all centrally saved identification documents into one app. MIA combines digital representations of classic “offline-documents” and electronic identities (eID) for transparent use in the physical and digital world. MIA focuses on building security into its processes rather than on developing hardware secure elements. This provides the indispensable possibility for non-geek broad adoption in established ID-system.

Competitor: Österreichische Staatsdruckerei (OeSD)

### 3rd place: CloudRAID for iOS (<http://sec.hpi.de/cloudraid>)

„CloudRAID for iOS” aims to be a trustworthy, transparently designed app for all iOS devices. It utilizes the large amount of affordable storage resources in clouds to store private or confidential data of end users. Therefore, the cryptographic keys always remain on the device. Hence, neither storage providers nor our meta data server is capable of reading any file contents. The meta data server's role is synchronization across multiple devices or sharing with other users of the system.

The technical core is based on strong hybrid encryption, i.e. file contents are encrypted symmetrically and encryption keys are protected by asymmetric encryption. In addition, the distribution of the fragmented file across a hybrid cloud setup enhances all major data security aspects dramatically: confidentiality, availability, and integrity. Each cloud storage provider will only preserve part of the original file and the software can choose a subset of the fragments for reconstruction.

Competitor: The Hasso Plattner Institute (HPI) at the University of Potsdam



The team developing OmniShare received a 20,000 EUR prize for the further development and deployment of their App. All three winners were given the opportunity to present their App and their organisations' activities throughout the week at their own Start-up Workstation at CeBIT 2016.

Besides MAPPING Project Coordinator Prof. Joe Cannataci and MAPPING WP5 leader Nikolaus Forgó, other distinguished guests and renowned experts in the field of privacy such as Christoph Grabenwarter (Judge at the Austrian Constitutional Court), Sachar Paulus (Faculty of Computer Science, Mannheim School of Applied Sciences) and Jan Philipp Albrecht (Member of the European Parliament) were present at the Award Ceremony. During the event's closing Meet & Greet session participants of the event had the opportunity to discuss privacy related issues with the speakers, the winning teams and the competition's jury members.



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