Scalable Policy-aware linked data architecture for privacy, transparency and compliance

Fact Sheet

Project information

SPECIAL

Grant agreement ID: 731601

Project website

Status
Closed project

Start date
1 January 2017

End date
31 December 2019

Funded under:
H2020-EU.2.1.1.

Overall budget:
€ 3 991 388,75

EU contribution
€ 3 991 388,75

Coordinated by:
GEIE ERCIM

France

Objective

The SPECIAL project will address the contradiction between Big Data innovation and privacy-aware data protection by proposing a technical solution that makes both of these goals realistic. We will develop technology that: (i) supports the acquisition of user consent at collection time and the recording of both data and metadata (consent, policies, event data, context) according to legislative and user-specified policies; (ii) caters for privacy-aware, secure workflows that include usage/access control, transparency and compliance verification; (iii) demonstrates robustness in terms of performance, scalability and security all of which are necessary to support privacy preserving innovation in Big Data environments; and (iv) provides a dashboard with feedback and control features that make privacy in Big Data comprehensible and manageable for data subjects, controllers, and processors. SPECIAL shall allow citizens and organisations to share more data, while guaranteeing data protection compliance, thus enabling both trust and the creation of valuable new insights from shared data. Our vision will be realised and validated via real world use cases that - in order to be viable - need to overcome current challenges concerning the processing and sharing of data in a privacy preserving manner. In order to realise this vision, we will combine and significantly extend big data architectures to handle Linked Data, harness them with sticky policies as well as scalable queryable encryption, and develop advanced user interaction and control features: SPECIAL will build on top of the Big Data Europe and PrimeLife Projects, exploit their results, and further advance the state of the art of privacy enhancing technologies.
Programme(s)

H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

Topic(s)

ICT-18-2016 - Big data PPP: privacy-preserving big data technologies

Call for proposal

H2020-ICT-2016-1

See other projects for this call

Funding Scheme

RIA - Research and Innovation action

Coordinator

GEIE ERCIM

Address
Route Des Lucioles 2004
Sophia Antipolis
06410 Biot
France

Activity type: Other

EU Contribution: € 672 170

Contact the organisation

Website

Participants (9)

WIRTSCHAFTSUNIVERSITAT WIEN

Address
Welthandelsplatz 1
1020 Wien
Austria

Activity type: Higher or Secondary Education Establishments

EU Contribution: € 650 737,50

Contact the organisation

Website
<table>
<thead>
<tr>
<th>Organisation</th>
<th>EU Contribution</th>
<th>Address</th>
<th>Activity type</th>
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<tr>
<td>Centro Regionale Information Communication Technology scrI</td>
<td>€ 449 375</td>
<td>Viale Traiano Palazzo Ex Poste Snc 82100 Benevento</td>
<td>Research Organisations</td>
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<td>TECHNISCHE UNIVERSITAT BERLIN</td>
<td>€ 343 000</td>
<td>Strasse Des 17 Juni 135 10623 Berlin</td>
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<tr>
<td>UNABHANGIGES LANDESZENTRUM FUR DATENSCHUTZ</td>
<td>€ 361 950</td>
<td>Holstenstrasse 98 24103 Kiel</td>
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<td>Havenkant 38 3000 Leuven</td>
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