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

Fact Sheet

Project Information

SPECIAL
Grant agreement ID: 731601

Closed project

Funded under
INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

Total cost
€ 3,991,388,75

EU contribution
€ 3,991,388,75

Coordinated by
GEIE ERCIM
France

Start date
1 January 2017

End date
31 December 2019

This project is featured in...
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.

Fields of science

natural sciences › computer and information sciences › computer security › access control
natural sciences › computer and information sciences › computer security › data protection
natural sciences › computer and information sciences › data science › big data
natural sciences › computer and information sciences › data science › data processing
natural sciences › computer and information sciences › internet › semantic web
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-2016-2017

See other projects for this call

Sub call

H2020-ICT-2016-1

Funding Scheme

RIA - Research and Innovation action

Coordinator

GEIE ERCIM

Net EU contribution

€ 672 170,00

Address

Route Des Lucioles 2004 Sophia Antipolis
06410 Biot

France

Region

Provence-Alpes-Côte d'Azur > Provence-Alpes-Côte d'Azur > Alpes-Maritimes

Activity type

Other

Links
Participants (9)

WIRTSCHAFTSUNIVERSITAT WIEN
Austria
Net EU contribution
€ 650 737,50
Address
Welthandelsplatz 1
1020 Wien
Region
Wien > Wien
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation Website Participation in EU R&I programmes H2020 collaboration network
Non-EU contribution
€ 0,00

CENTRO REGIONALE INFORMATION E COMMUNICATION TECHNOLOGY SCARL
Italy
Net EU contribution
€ 449 375,00
Address
Via Traiano Palazzo Ex Poste Snc
82100 Benevento
Sud > Campania > Benevento

Activity type
Research Organisations

Links
Contact the organisation  
Participation in EU R&I programmes  
H2020 collaboration network

Non-EU contribution
€ 0,00

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TECHNISCHE UNIVERSITAT BERLIN

Germany

Net EU contribution
€ 343 000,00

Address
Strasse Des 17 Juni 135
10623 Berlin

Region
Berlin > Berlin > Berlin

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation  
Website  
Participation in EU R&I programmes  
H2020 collaboration network

Non-EU contribution
€ 0,00

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UNABHANGIGES LANDESZENTRUM FUR DATENSCHUTZ

Germany

Net EU contribution
€ 361 950,00

Address
H l t t 98

Region
Berlin > Berlin > Berlin
Holstenstrasse 98
24103 Kiel

Region
Schleswig-Holstein > Schleswig-Holstein > Kiel, Kreisfreie Stadt

Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links
Contact the organisation  Website
Participation in EU R&I programmes
H2020 collaboration network

Non-EU contribution
€ 0,00

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TENFORCE BVBA
Belgium

Net EU contribution
€ 622 406,25

Address
Havenkant 38
3000 Leuven

SME
Yes

Region
Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Leuven

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
H2020 collaboration network

Non-EU contribution
€ 0,00

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DEUTSCHETELEKOM AG

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DEUTSCHE TELEKOM AG

Germany

Net EU contribution

€ 281 250,00

Address

Friedrich-ebert-allee 140
53113 Bonn

Region

Nordrhein-Westfalen > Köln > Bonn, Kreisfreie Stadt

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation
Website
Participation in EU R&I programmes
H2020 collaboration network

Non-EU contribution

€ 0,00

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THOMSON REUTERS GROUP LIMITED

United Kingdom

Net EU contribution

€ 179 116,11

Address

30 South Colonnade Canary Wharf The Thomson Reuters Building
E14 5EP London

Region

London > Inner London — East > Tower Hamlets

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation
Participation in EU R&I programmes
H2020 collaboration network

Non-EU contribution

€ 0,00
PROXIMUS

Belgium

Net EU contribution

€ 265 500,00

Address

Boulevard Du Roi Albert II 27
1030 Bruxelles

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation
Website
Participation in EU R&I programmes
H2020 collaboration network

Non-EU contribution

€ 0,00

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REFINITIV LIMITED

United Kingdom

Net EU contribution

€ 165 883,89

Address

The Thomson Reuters Building 30
E14 5EP London

Region

London > Inner London — East > Tower Hamlets

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation
Participation in EU R&I programmes
H2020 collaboration network

Non-EU contribution

€ 0,00