

DPS SP

Data Protection, Security and Privacy
in cloud.



Erkuden Rios, Tecnalia

28th June 2017, Net Futures 2017, Concertation meeting

DPSP Cluster objectives

- 1. Maximize the impact** of the Cluster projects' results:
 1. Seek synergies of proposed solutions
 2. Maximise the innovation over state-of-the-art.
 3. Organise joint dissemination events
 4. Encourage standardisation.
- 2. Ensure the market orientation and adoption** of project results.
 1. Work in the deep analysis of market trends and needs.
 2. Look for alignment of exploitation strategies and models as much as possible.
- 3. Help define the research and innovation needs** in H2020 in the areas of Data Protection, Security and Privacy in the Cloud.

Strong community of experts

28 projects (€86M): 19 in H2020 (€64M), 6 in FP7 (€17M), 2 in CIP (€5M).



Member projects

In April 2015, 24 projects started in the Cluster.

- -3 projects ended in 2015.
- -6 projects ended in 2016.
- -2 projects ended in Jan 2017.
- +3 projects new in the cluster in 2017 -> 16 projects alive in 2017!

The ended projects remain part of the Cluster and are informed and contribute to the results.

Voluntary Collaboration!!

<https://eucloudclusters.wordpress.com/data-protection-security-and-privacy-in-the-cloud/>

2 Technical Working Groups

WG1: Advanced Security and data protection mechanisms:

- Security and privacy-by-design
- Security and privacy Requirements modelling
- Fine-grained policy definitions
- Risk assessment frameworks (scalability, multi-technology)
- Full control of data flow (including cross-border).
- Efficient (searchable) encryption and key management.
- Secure and privacy-preserving multi-tenancy.
- Fully secure APIs.

WG2: Trust & Interoperability

- Data protection legal framework transparency
- Security & privacy aware cloud SLA management.
- Cloud security certification
- Continuous control and assurance
- Secure dynamic composition (brokering, CSP benchmarking)
- Interoperability mechanisms



Results so far - events

Year 2015

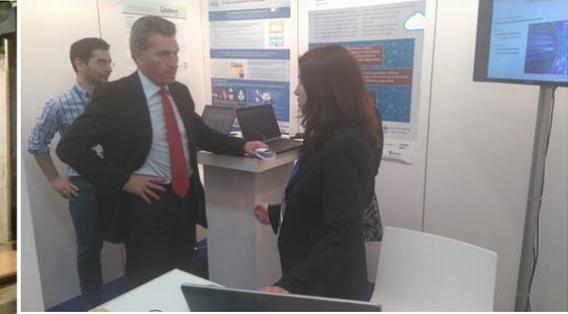
- Participation at CloudForward 2015, Pisa.

Year 2016

- 1st joint Workshop in Feb 2016, Naples.
- Participation with a booth at Net Futures 2016.
- Participation at Cloud Forward 2016, Madrid.

Year 2017

- Participation with a booth at Cloud Expo Europe 2017, London.
- SECPID 2017 (Workshop within ARES 2017) – organisation.



Results so far - public documents

Year 2015

- Project fiches & presentations.
- Website, logo, collaborative area.

Year 2016

- Whitepaper on Challenges for trustworthy (multi-)Cloud-based services in the Digital Single Market (v3.1). (January 2016)
- Map of synergies between the projects (January 2016)

Year 2017

- The DPSP Cluster presentation at Cloud Security Expo 2017 (March 2017)
- Whitepaper on Cloud Technology Options towards Free Flow of Data (v1.3) (June 2017)

All available at:

<https://eucloudclusters.wordpress.com/data-protection-security-and-privacy-in-the-cloud/>



Whitepaper on Technology options towards FFD

- 22 authors, 14 projects.
- Collects **technology**, **methodologies** and **tools** from the projects that address some of the issues raised by Free Flow of Data, in 10 areas of work:

Free Movement of data
Location of data
Ownership
Access to data
Access to public data
Usability
Interoperability
Switch of CSPs
Cloud certifications
Cloud contracts (SLA)

- The aim is to facilitate the identification of the state-of-the-art of **Cloud technology options** towards solving the **data security and privacy challenges** posed by the Free Flow of Data initiative in Europe.
- The document gives reference to the individual projects and the technologies produced by them.

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Cloud technology options towards

Free Flow of Data



Other contributions

- Contributed to standards identification work of Cloudwatch (e.g. CloudWatch's Clustering App).
- Contributed to next Work Programme topics identification (Cloud Challenges Workshop in November 2016, Brussels).



Continuous work

Planned results 2017

Documents:

- Updated Map of synergies , including new projects.

Events:

- Participation at Cloudscape Brazil & WCN 2017
5-6 July, Sao Paulo.
- Support to SECPID 2017 (Workshop within ARES 2017)
29th August 2017, Reggio Calabria.
- 2nd Joint Workshop of the Cluster in September 2017, Amsterdam – organisation on going.



Break out Session – 15:00-17:00

DPSP Cluster meeting:

- Room: River 3

- Agenda:

15:00-15:45. Chair: Erkuden Rios

- Projects presentations (8 min each): EUBrasilCloudFORUM, SecureCloud, SERECA,
- Short discussion: Organisation of the 2nd Joint Workshop of the Cluster.

16:00-17:00. Chairs: Michel Drescher and Marina Bregu

- Theme 1: Use of standards and gaps findings on security related standards
- Theme 2: Recommendations and call to action on standards development processes and artefacts

Contact

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Thank you!!



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