

European Cloud Computing Strategy

Open and interoperable clouds are possible



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European Cloud Strategy

Three key actions:

- 1. Cutting through the Jungle of Standards
- 2. Safe and Fair Contract Terms and Conditions
- 3. Promoting Common Public Sector Leadership through a European Cloud Partnership

Standards are everywhere!



Cutting through the jungle of standards The problem

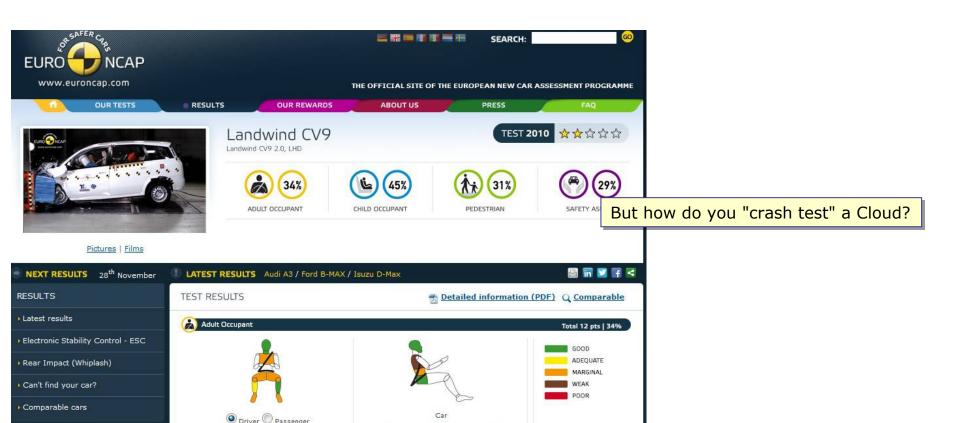
"clouds may develop in a way that lacks interoperability, data portability and reversibility"

"independent, trusted **certification** is needed"



The objective

Standards which are really needed, and meet the needs of users





The actions

"ETSI to coordinate with stakeholders in a **transparent and open way** to identify by 2013 a detailed **map of the necessary standards** (inter alia for **security**, **interoperability**, **data portability** and **reversibility**)"



ETSI is historically a **Telecommunications** standards institute. With the Cloud strategy ETSI gets the job to extend its usual perspective and to involve **all the stakeholders** interested in Cloud computing



The actions

"ETSI to coordinate with stakeholders in a **transparent and open way** to identify by 2013 a detailed **map of the necessary standards** (inter alia for **security**, **interoperability**, **data portability** and **reversibility**)"

"Enhance **trust in cloud computing** services by recognising at EU-level **technical specifications** in the field of information and communication technologies for the **protection of personal information**"

The **Regulation on European Standardisation** (approved by the Parliament in Sept. 2012) includes rules to allow recognition of technical specifications ("**fora and consortia standards**") at EU level, through the **ICT Standardisation policy multi-stakeholder platform.**

ETSI is a member of the platform





The actions

"ETSI to coordinate with stakeholders in a **transparent and open way** to identify by 2013 a detailed **map of the necessary standards** (inter alia for **security**, **interoperability**, **data portability** and **reversibility**)"

"Enhance **trust in cloud computing** services by recognising at EU-level **technical specifications** in the field of information and communication technologies for the **protection of personal information**"

"ENISA and other relevant bodies to assist the development of EU-wide **voluntary certification schemes** in the area of cloud computing (including as regards **data protection**)"



Certification in data protection will be supported



The actions

"ETSI to coordinate with stakeholders in a **transparent and open way** to identify by 2013 a detailed **map of the necessary standards** (inter alia for **security**, **interoperability**, **data portability** and **reversibility**)"

"Enhance **trust in cloud computing** services by recognising at EU-level **technical specifications** in the field of information and communication technologies for the **protection of personal information**"

"ENISA and other relevant bodies to assist the development of EU-wide **voluntary certification schemes** in the area of cloud computing (including as regards **data protection**)"

"harmonised metrics for the energy consumption, water consumption and carbon emissions of cloud services"



Environmental impact will become an important criterion in Cloud market



European Cloud Partnership

The problem

"public sector market fragmented", "services integration is low and citizens do not get the best value for money"

The objective

"Bring together industry expertise and public sector users to work on common procurement requirements for cloud computing in an open and fully transparent way"









...and others...



European Cloud Partnership

The actions

The ECP will, under the guidance of a steering board bring together cooperating public authorities working with industry consortia to implement a pre-commercial procurement action to:

"Identify **public sector cloud requirements**; develop **specifications** for IT procurement and procure **reference implementations** to demonstrate conformance and performance"

"Advance towards **joint procurement** of cloud computing services by public bodies based on the emerging common user requirements"

"Set up and execute **other actions** requiring coordination with stakeholders"

NO European super-Cloud !!!



European Cloud Strategy - conclusion

- Closed models and vendor lock-in are a danger for Cloud model take-up
- Appropriate standards and certification schemes need to be identified
- The Public sector has an important role for the shaping of the Cloud computing market



Further Information

European Cloud Computing Strategy
http://ec.europa.eu/information_society/activities/cloudcomputing/index_en.htm

Digital Agenda for Europe https://ec.europa.eu/digital-agenda/

Software & Service Architectures and Infrastructures http://cordis.europa.eu/software-services

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