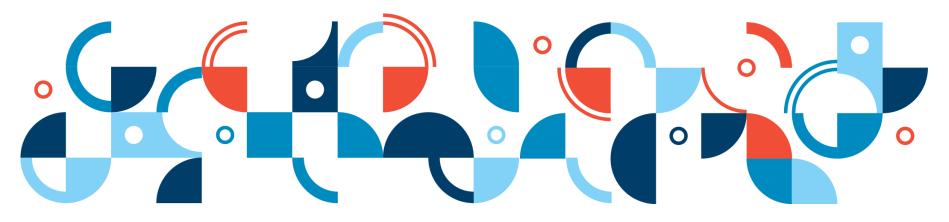


Cloud as a Growth Engine for Business

Shaping policy that affects Cloud Computing

Jonathan Sage CloudWatch concertation meeting, September 11th 2014





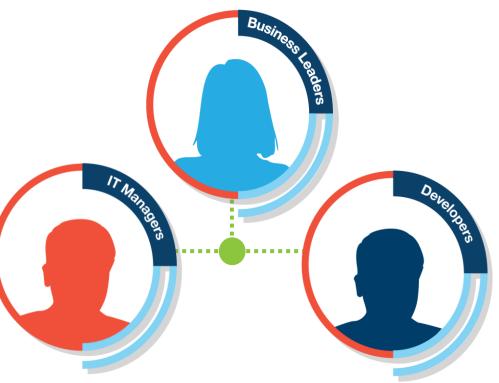
The Future is a Composable Business

Restlessly reinvent and innovate your processes

Make better decisions with realtime actionable Insights

Accelerate your time to market

Integrate across the enterprise





The Path to Composable Business

Dynamic Cloud

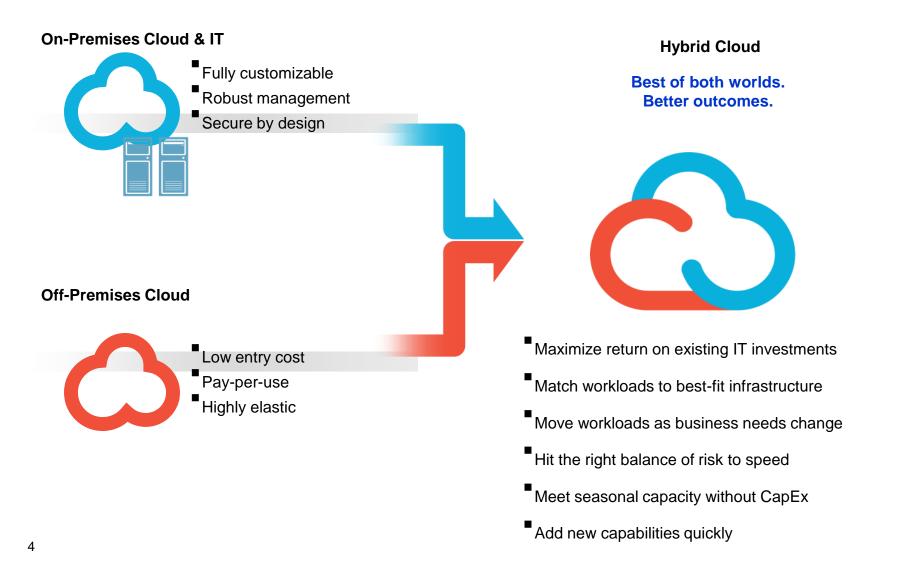


Acts as one dynamically managed, secure environment

• Flexible choice of delivery models

•Interoperable through open standards







Groups working on The Cloud Computing **Cloud strategy's** implementing the strategy Strategy key actions **ETSI: Cloud Standards** Cutting through Delivered Coordination The European 12/2012 the jungle of Commission's technical The Cloud Select Industry Group standards on Certification Schemes strategy Delivered 02/2014 'Unleashing the The Cloud Select Industry Group on potential of cloud To be delivered Code of Conduct **Development of** computing in end 2014 model 'safe and The Cloud Select Industry Group Europe' fair' contract terms on Service Level Agreements, Delivered on and conditions 06/2013 Adopted on 27 The Cloud Computing September 2012, it is Launched on **Contract Group A European** 19/11/2013 designed to speed up Cloud Partnership and increase the use Report Delivered. Steering Board to drive of cloud computing 03/2014 across the economy innovation and The European Cloud Partnership growth from the ender Specs Cloud for Europ public sector. to be launched 10/2014



Cloud Strategy – Where are we?

 Cloud Standards Coordination – ETSI (Ver 1 Dec 2013, Ver 2 early 2015)
Security Certification Schemes – Cloud SIG ENISA - list (Feb 2013) and ENISA - metaframework (Mid 2014)
Service Level Agreements – Cloud SIG Guidelines (June 2014)
Code of Conduct for Cloud SPs - Cloud SIG To Article 29 Working Party (Mar 2014) Operational (end of 2014)



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ETSI CSC - Main conclusions



http://www.etsi.org/images/files/Events/2013/2013_CSC_Delivery_WS/CSC-Final_report-013-CSC_Final_report_v1_0_PDF_format-.PDF



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Cloud Computing Certification

Cloud Certification Schemes List - CCSL

Welcome to the Cloud Certification Schemes List (CCSL) - a listing of different certification schemes for cloud computing customers, developed and maintained by ENISA in tight collaboration with the European Commission and the private sector (see below).

What is a cloud certification scheme?

Before buying a cloud service, customers want to know if the service is secure and reliable. But cloud computing services are complex and built up from many different ICT components (cables, large data centers, software, et cetera), so it is not really feasible for customers to check all the technical details by themselves. In a cloud certification scheme one fixed set of security requirements is checked, once for all customers. In this way a certification can simplify the procurement of cloud services by customers.

How to use this list?

CCSL gives an overview of the different existing certification schemes which could be relevant for cloud computing customers. CCSL also shows which are the main characteristics of each certification scheme. For example, which are the underlying standards, who can perform the certifications, who audits the cloud services. CCSL also provides links and references to each certification schemes for further reading.



Tool Manual

Cloud Certification List

Login (for partners)

Click on the icons of each certification scheme below, to view the characteristics of each scheme. Note that in the future more schemes may get listed here.











ISO 27001 Certification

Open Certification Framework

EuroCloud Star audit

TUV Certified Cloud Service

Security Rating Guide





Cloud SLA Standardisation Guidelines

The **Cloud SLA Standardisation Guidelines** will help professional cloud users to ensure essential elements are included in plain language in contracts they make with cloud providers. Relevant items include:

- The availability and reliability of the cloud service,
- The quality of support services they will receive from their cloud provider
- Security levels
- How to better manage the data they keep in the cloud.



Input to ISO Cloud Computing Working Group

- This initiative will have deeper impact if standardisation of SLAs is done at international level, e.g. through international standards, such as ISO/IEC 19086.
- To this end, the C-SIG on SLAs is also working with the ISO Cloud Computing Working Group, to present a European position on SLA Standardisation (ISO meeting in October 2014)
- The Cloud SLA Standardisation Guidelines will thus feed into ISO's effort to establish international standards on SLAs for cloud computing.



Code of Conduct on DP: Background

- Directive 95/46/EC art 27 encourages adoption of codes of conduct and their endorsement by art 29 Working Party
- EC Cloud Computing Strategy of 29-09-2012

"Work with industry to agree a code of conduct for cloud computing providers to support a uniform application of data protection rules which may be submitted to the Article 29 Working Party for endorsement in order to ensure legal certainty and coherence between the code of conduct and EU law."



Data Protection Code of Conduct

Code of Conduct Working Group

- 1st meeting 10 April 2013
- Under DG Connect's Cloud Select Industry Group
- Continuous drafting until end of August

Work progress

- Second version of the Code of conduct was submitted to the Article of 29 Working Party ("29WP").
- Comments from the WP29 TS received in May 2014
- Revised version of the Code and submission to the 29 WP planned for end of August 2014
- Aim for endorsement before end of 2014



Public sector & policy barriers

- Privacy and security are common barriers –addressed but stressed at different levels
- Other:
 - Regulatory issues (e.g. requirements for sharing data between administration in Italy - rigidity in EU procurement law (G-cloud))
 - Technical issues (e.g. lack of maturity of technologies)
 - Financial issues (e.g. assessing real costs of cloud deployment)
 - Adapting SLAs to cloud and public sector
- **Changes in process and ways of working** are, if not a barrier, a main challenge in implementing cloud initiative in the public sector:
 - Cloud requires adjustment in ICT management processes, automation of tasks and changes in skills requirements for staff, pulling resources together between administrations used to manage their own bespoke ICT solutions, etc.

Trusted Cloud Europe Questionnaire

0%	20%	40%	60%	80%	100%
Harmoni	se Data Protection	n Rules			
Provide (Clearer Rules to R	esolve Contractua	ıl or Service Disput	tes	
Move fro	m Formal to Fun	ctional Requireme	ents as regards Dat	a Location	
Allow not	n-EUProviders				
Allow Providers Adhering to Trusted Cloud Europe framework					
Improve	Legal Framework	ζ <u>S</u>			
Encourag	ge Information Se	curity Controls ba	llanced with Const	ımer & Provider N	leeds
Brand 'T	rusted Cloud Eur	ope'			
Support S	Standards & Certi	ification without ir	nhibiting Innovatio	on la	
Encourag	ge Cloud-Active P	Procurement Police	es		

■ AGREE ■ NO OPINION ■ DISAGREE

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