

Standardisation, Certification and International Issues in Cloud Security

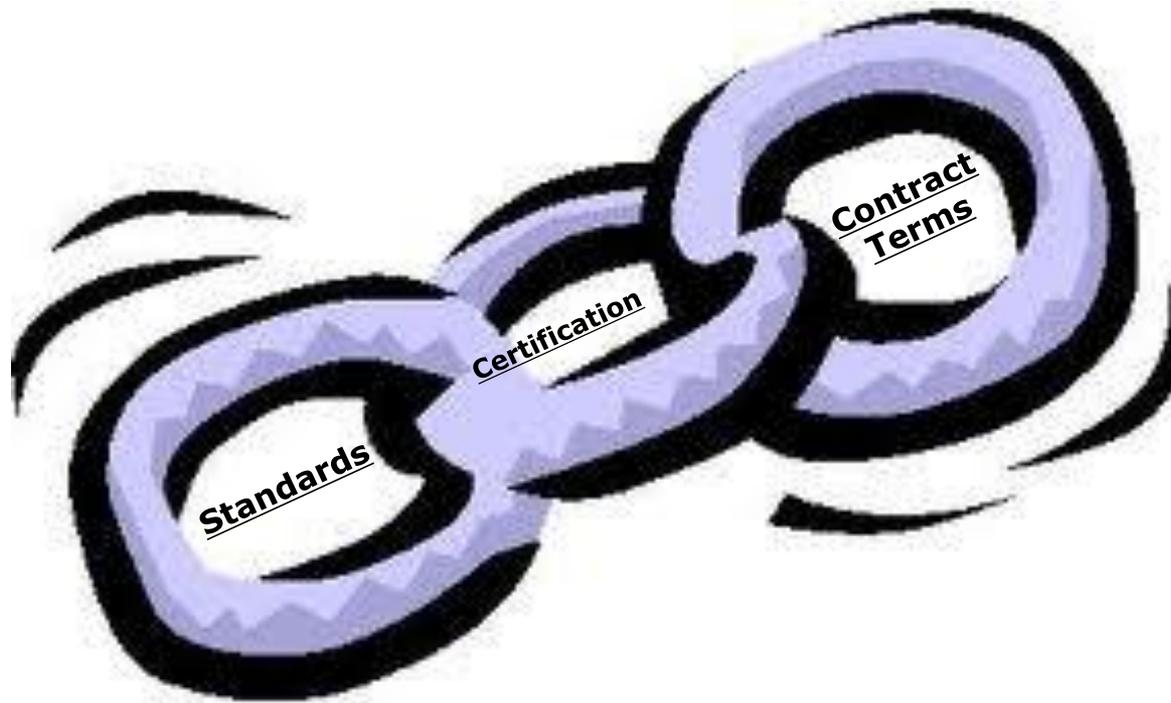
Aljosa
Pasic,
June 2013

- ▶ Communication from EC to the European Parliament
- ▶ Three cloud-specific actions
 - Cutting through the Jungle of Standards
 - Safe and Fair Contract Terms and Conditions
 - Establishing a European Cloud Partnership to drive innovation and growth from the public sector
- ▶ Comments from European Economic and Social Committee
 - Top down approach
- ▶ CIRBUS coordination and support action takes hybrid approach to support EU policy: top-down & bottom up mapping

Building the chain of trust

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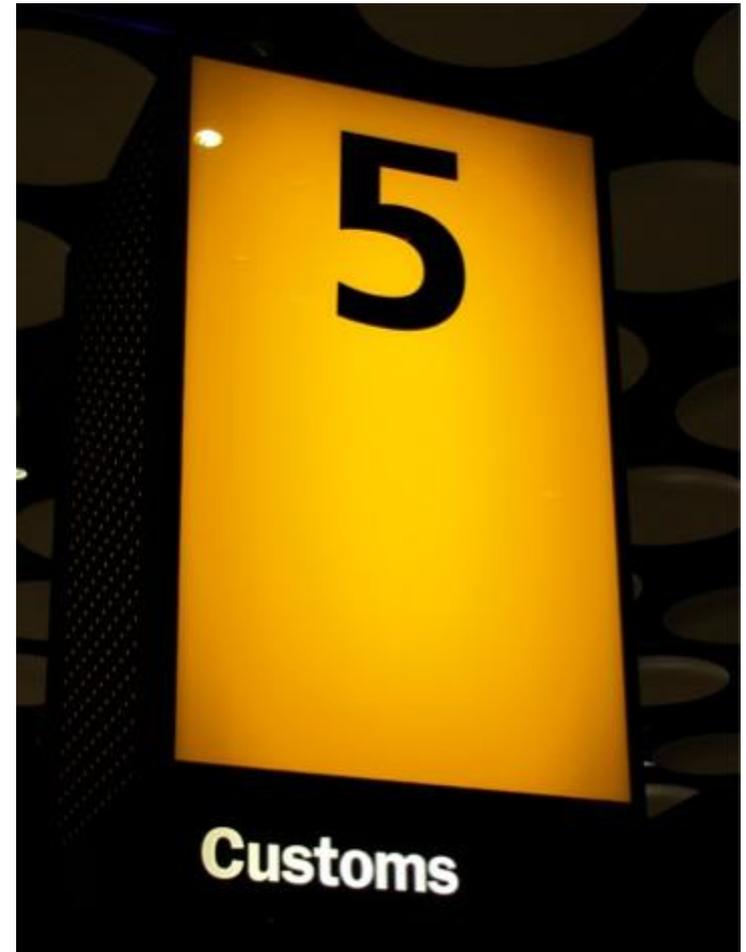


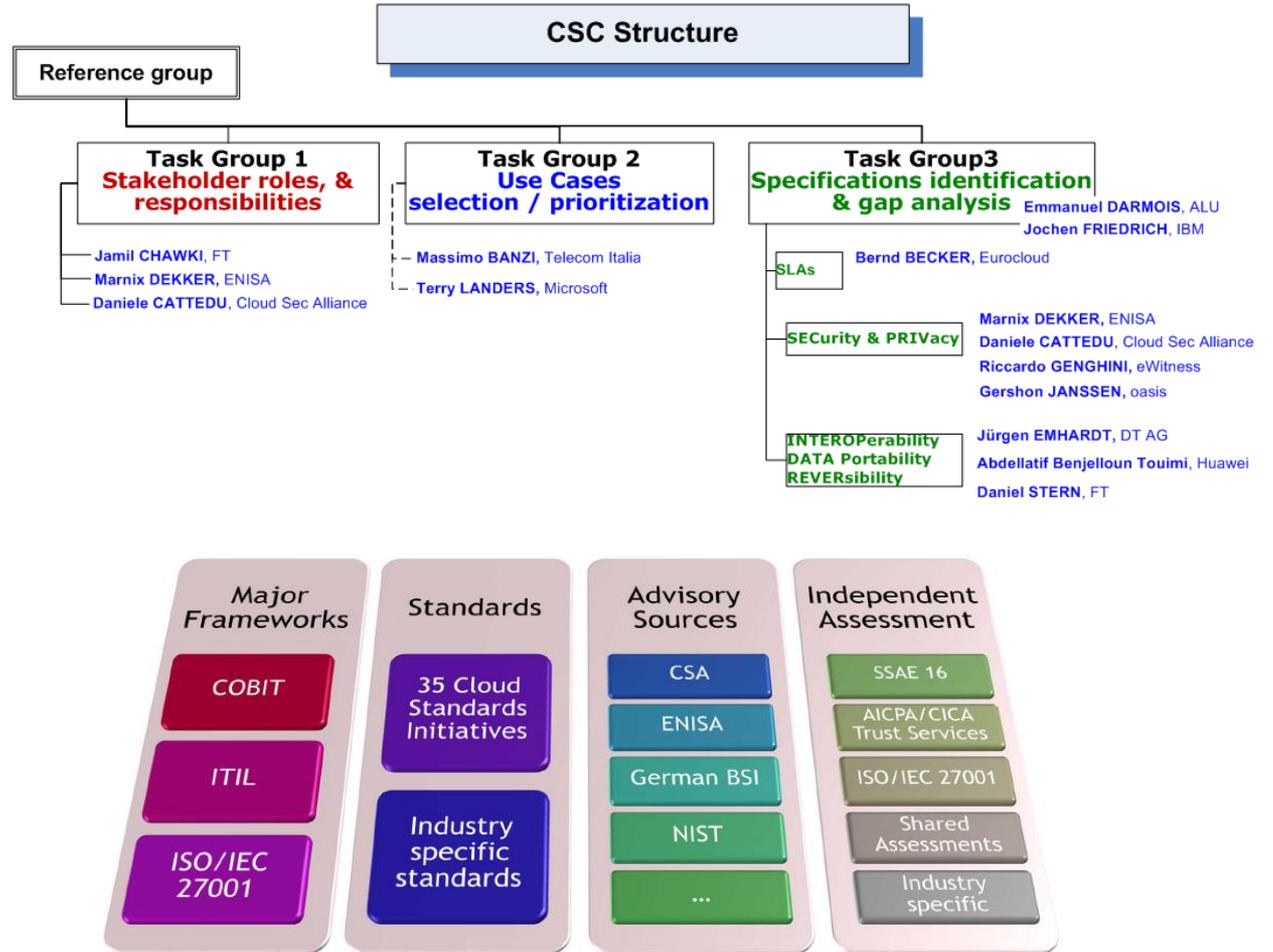
Five pillars of CIRRUS

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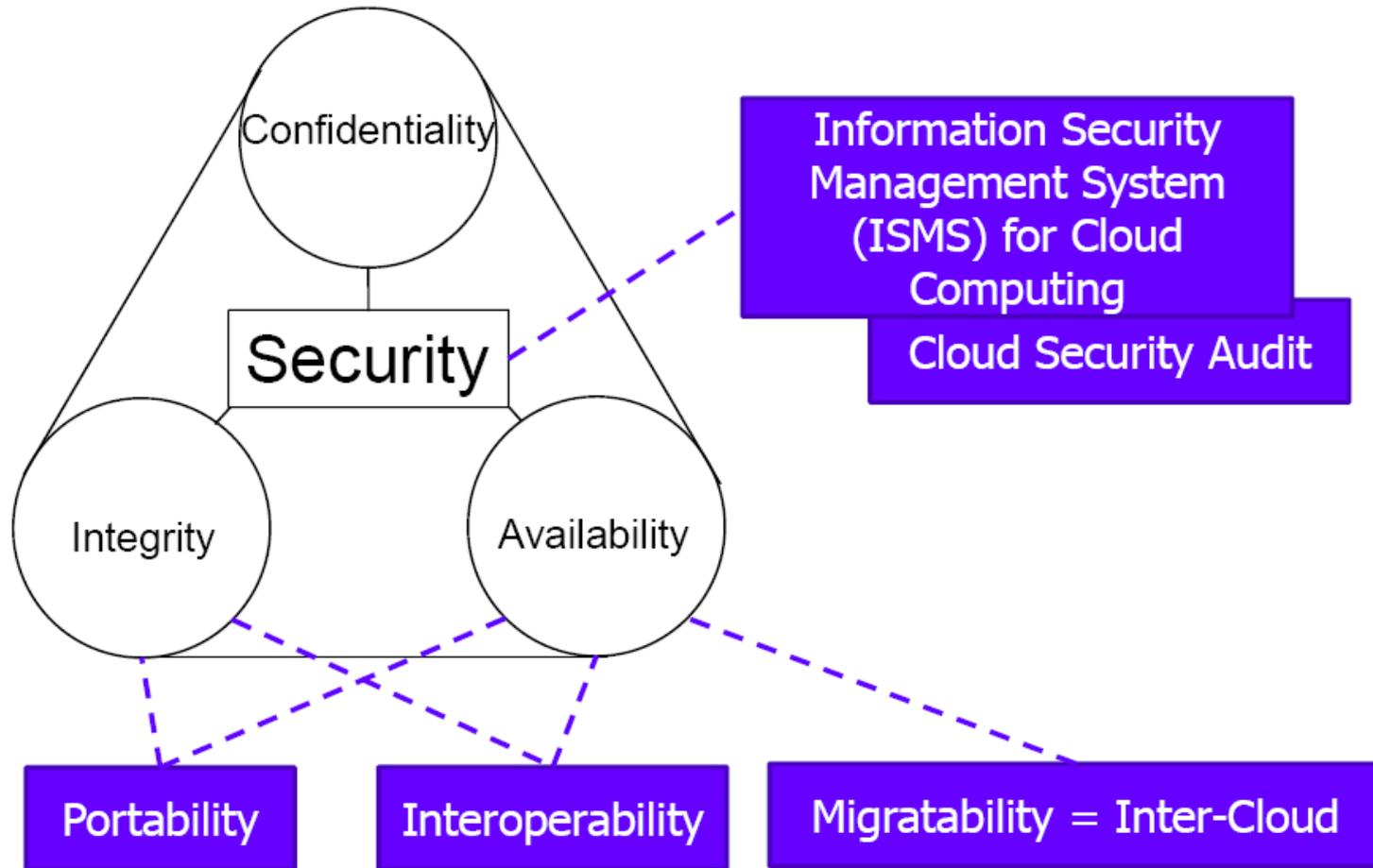
- ▶ **ETSI**
 - Cloud Standard Convergence
- ▶ **ENISA**
 - Cloud Expert Group
- ▶ **ECP and SIG**
- ▶ **EC FP7**
 - Research projects
- ▶ **Member States**
 - Initiatives and Projects





Which security standards?

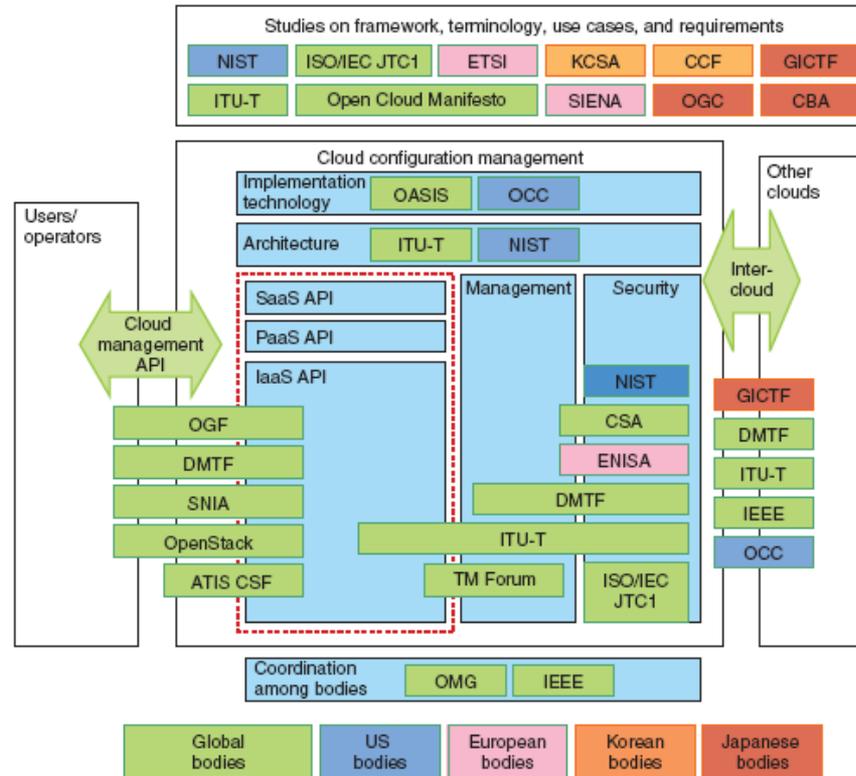
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When less is more

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OGC: Open Government Cloud consortium
 CBA: Cloud Business Alliance
 SIENA: Standards and Interoperability for e-infrastructure Implementation initiative
 KCSA: Korea Cloud Service Association
 ATIS CSF: Alliance for Telecommunications Industry Solutions Cloud Services Forum

- ▶ Single Cloud Security Expert Group
- ▶ Current focus on Incident Management



<http://www.aicpa.org/InterestAreas/InformationTechnology/Resources/TrustServices/DownloadableDocuments/10957-378%20SOC%20Whitepaper.pdf>

CSA Open Certification Framework for Cloud services

Level 3: Continuous Monitoring based
certification

Level 2: STAR Certification
(third party assessment)

Level 1: STAR Self Assessment

<https://cloudsecurityalliance.org/research/ocf/>

European Cloud Partnership

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- ▶ ECP Steering Board: Presidents, Ministers and CEOs
- ▶ Select Industry Group
- ▶ Budget for Pre-Commercial Procurement



Most negotiated terms

provider liability,

service level agreements,

data protection and security,

termination rights,

unilateral amendments to service features,

intellectual property rights

Common unfair terms

Exclusions and Limitations of liability

Unsuitable SLAs

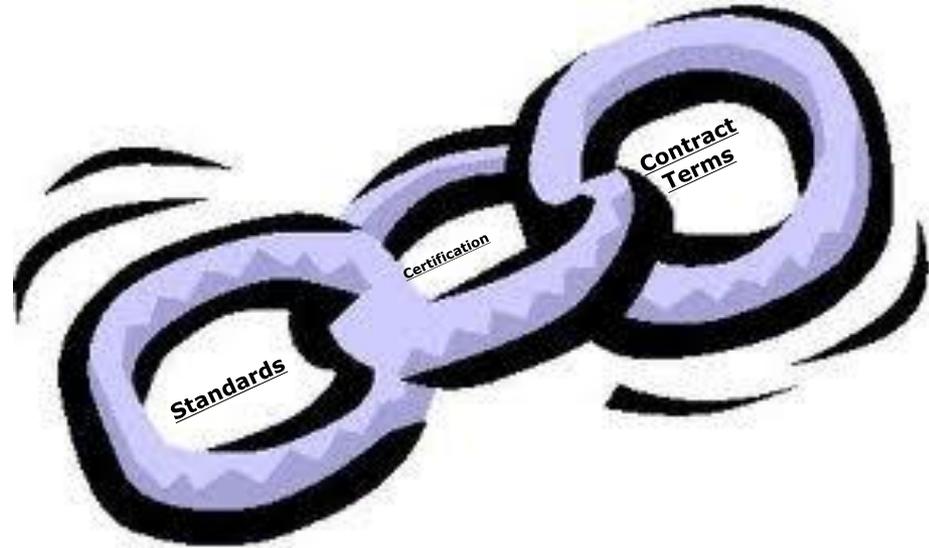
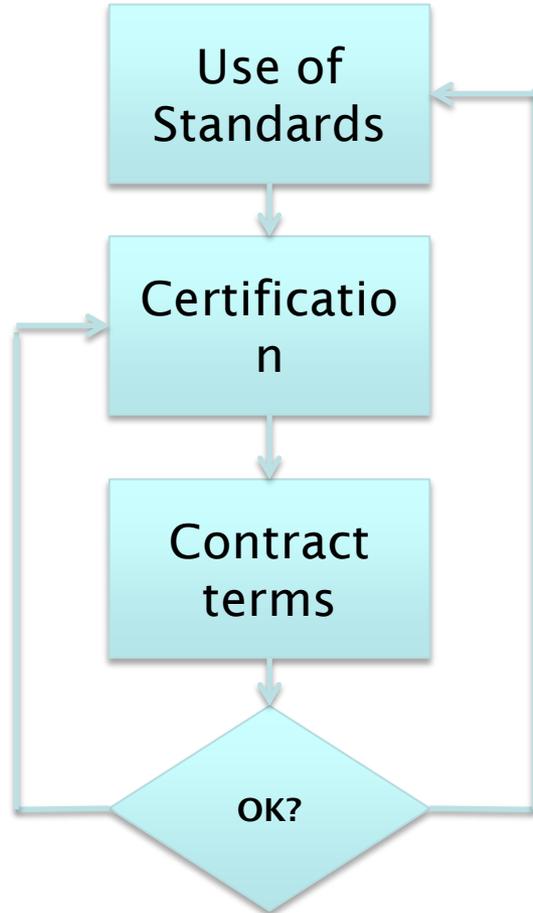
Security and privacy

Contract Lock-in

Change without notice

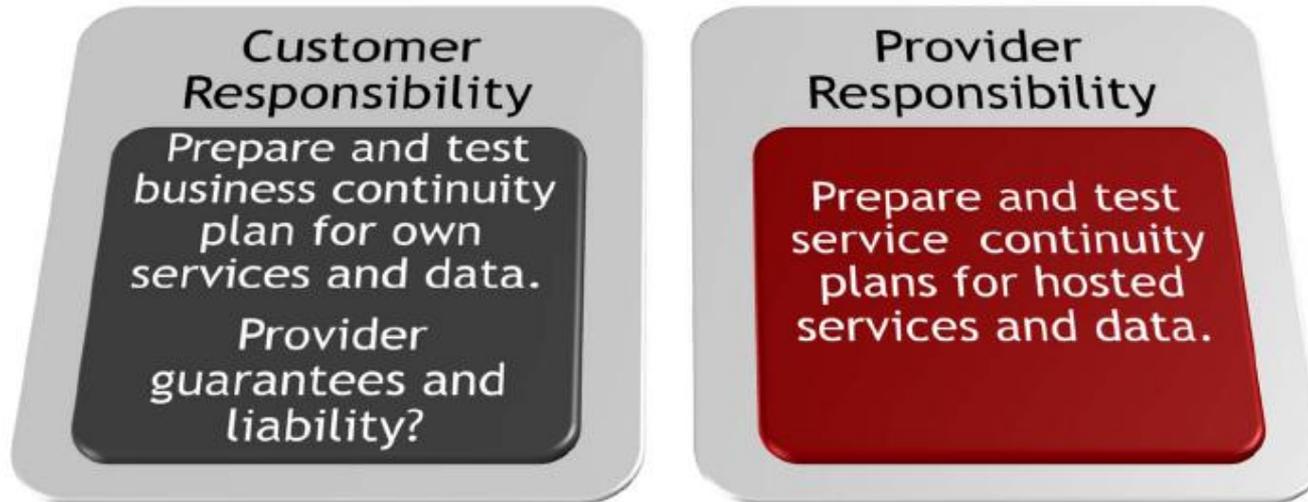
Conclusions (1)

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ISO 27001 Control 14:

- A business continuity management process should be implemented to minimize the impact of and recover from events



Research Projects

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- ▶ Cloud Research with Security WP
- ▶ Security Research with Cloud use cases



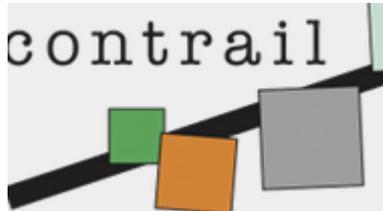
Certification infrastrUcture for MUlti-Layer cloUd Services



And also...

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Member States

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- ▶ Initiatives: EuroCloud
- ▶ Research Projects



Servicios sobre Plataforma Cloud
para Procesos Online de Gobierno y
Administración electrónicos



What about nr. 6??

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Date/time: Wednesday 24 July 2013 from 09.00 till 18.00 hrs.

Venue: Kyoto TERRSA, room 3-B, More info at <http://www.kyoto-terrsa.or.jp/floormap.html>. CIRBUS wshop is co-located with COMPSAC conference: <http://compsac.cs.iastate.edu/>

Agenda:

08.30 - 09.00	Registration
09.00 - 09.15	Opening of the workshop by Atos and IPA
09.15 - 10.15	First session – Security and standardisation issues in Cloud Portability and Interoperability . Chair and speakers include Aljosa Pasic (Atos), Margot Dor (ETSI), Kazuyoshi Kiriha, (NEC and GICTF, Japan), Mr. Kiichiro Onishi, (HP and DMTF Japan)
10.15 - 10.45	Networking coffee break & exhibition
10:45 - 13:00	Panel on Governmental clouds and security in Asia – Chair and speakers include Aloysius Cheang (Cloud Security Alliance), Dr.Sak Segkhoonthod (Electronic Government Agency Thailand), Dr. Hin-Yan Lee (National Cloud Computing Office, Infocomm Development Authority Singapore), Dr Chao-Ming Wu, (New Taipei City Government, Taiwan), Mr. Irwan Rawal Husdi (BPPT, Indonesia), Prof. Dr. Shoji Kajita (Kyoto University, Japan), Mr Alex Lee, (Hong Kong SAR government)



- ▶ CSP tend to choose or even impose their standards, certificates and contract terms – supported by legislative environment of their choice
- ▶ Customers should better negotiate e.g. SLA and other contract terms
- ▶ Policy makers should take bottom-up opinions/status into account
- ▶ Researchers should align with market and policy priorities
- ▶ Standardization/agencies should synchronize and converge their efforts & recommendations

Thank you

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14/06/2013