

The Open Group Cloud Work Group

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THE *Open* GROUP

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ISO/IEC JTC 1 SC 38 SGCC Open Meeting

□ Agenda:♪

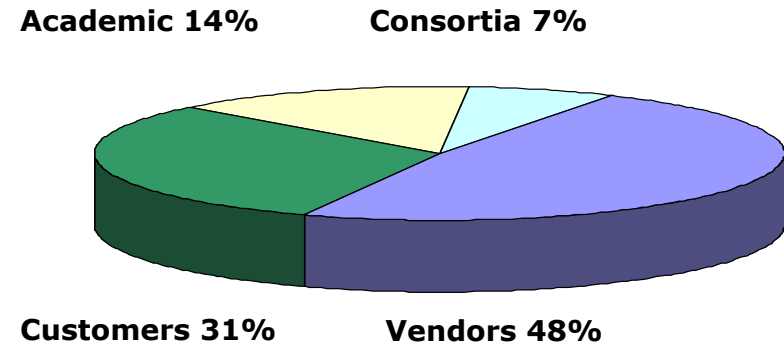
- Introduction to The Open Group
- Standards work at The Open Group that are relevant to Cloud Computing
- SOA WG
- Cloud WG
- Papers published
- Work in progress
- Futures

□ Target for this conference

- What part of cloud interoperability does your SDO see as its "charter"?♪
- How do your existing SDO standards and initiatives apply to the cloud?♪
- What new efforts might be initiated by your SDO in the cloud space?♪
- What publications are currently (or will soon be) available?♪

The Open Group

- ❑ Vendor-neutral and technology-neutral consortium
- ❑ Vision of Boundaryless Information Flow™
 - Access to integrated information
 - Within and among enterprises
 - Based on open standards and global interoperability
- ❑ *Making standards work*®



- >350 Member organizations
- >8,000 participants
- > 80 countries
- <50 staff
- Vendor/technology neutral
- Non-profit operation
- >25 years experience

What The Open Group Does

- **Membership & Events**
 - Forums and Work Groups
 - International Conferences
 - Regional Conferences
- **Certification**
 - People - ITAC, ITSC, TOGAF®
 - Products – UNIX®, POSIX®, Architecture Tools, SIF, LDAP, NASPL
 - Services - Training
- **Consortia Services**
 - Management services to other special interest groups

Open Group Standards relevant to Cloud

- ❑ **TOGAF**® – the industry standard framework for enterprise architects that can be used to develop any architecture, including those for Cloud solutions
- ❑ **SOA Work Group** – Many SOA standards apply to cloud computing as it is service oriented
- ❑ **Cloud Computing Work Group** is working on a set of papers and standards focused mostly on business and architecture aspects




The SOA Work Group

- ❑ Develops and fosters common understanding of SOA in order to facilitate alignment between the business and information technology communities.
- ❑ By conducting producing definitions, analyses, recommendations, reference models, and standards
- Formed in 2006
- 400 participants from 70 member companies
- Open to all Open Group Supplier and Customer Council members
- ❑ Forum Director: Chris Harding
- ❑ Co-chairs:
 - ❑ Awel Dico, Bank of Montreal
 - ❑ Mats Gejnevall, Capgemini
 - ❑ Heather Kreger, IBM




<http://www.opengroup.org/projects/soa>

SOA Work Group Activities

Current Projects

- 2011
-  SOA Reference Architecture
 -  Service-Oriented Cloud Computing Infrastructure
 -  SOA and Cloud Security
 - Legacy to SOA Evolution

Completed Projects

- SOA Case Studies
- Definition of SOA
-  SOA Governance Standards
-  Service Integration Maturity Model
-  Ontology for SOA'
- SOA/TOGAF Practical Guide

Other Activities

- SOA Source Book
- Navigating SOA
- SOA Japan Work Group
- SOA China Work Group
- SOA Tutorials
- ISO JTC 1 engagement

 Applies to Cloud

The Cloud Work Group

- ❑ Develops and fosters common understanding of Cloud
 - ❑ By conducting producing definitions, analyses, recommendations, reference models, and standards
- Formed in Oct 2009
 - Open to all Open Group Supplier and Customer Council members
 - Forum Director
 - Dr Chris Harding, The Open Group
 - David Lounsbury, CTO, The Open Group
 - Steering Committee – co-chairs
 - TJ Viridi, Boeing co-chair
 - Mark Skilton, Capgemini co-chair
 - Heather Kreger, Liaison

www.opengroup.org/cloudcomputing

Cloud WG Projects

Cloud Computing Explained (CCE)

DONE

defines Cloud Computing terminology and concept standards for the other projects

Cloud Business Artifacts (CBA)

provides guidance to those responsible for business solutions which use Cloud Computing.

Cloud Use Cases (CBUC)

DONE

defines the business use cases used by other cloud projects (complimentary to the Cloud Computing Use Cases <http://www.cloudusecases.org>)

Cloud WG Projects



Cloud Computing Architecture (CCA)

defining a cloud computing architecture meta model and a standardized set of extensions to The Open Group SOA Reference Architecture for Cloud computing.

Service Oriented Cloud Computing Infrastructure (SOCCI)

(Joint with SOA WG) defines architecture and recommendations for provisioning infrastructure as a service in both SOA and Cloud architectures and solutions. Infrastructure

Security for the Cloud and SOA (SCSOA)

(Joint with SOA WG and Security Forum) defines a cloud security reference architecture which will define building blocks that address the appropriate confidentiality, integrity, and availability requirements of SOA and Cloud computing.

Whitepapers Published

- Cloud Computing Explained
 - <http://www.opengroup.org/bookstore/catalog/w115.htm>

- An Architectural View of Security and Cloud
 - <http://www.opengroup.org/bookstore/catalog/w116.htm>

- Strengthening your Business Case for Using Cloud white paper
 - <http://www.opengroup.org/bookstore/catalog/w106.htm>

Cloud Business Artefacts Whitepapers Published

- Building ROI from Cloud Computing
 - <http://www.opengroup.org/bookstore/catalog/w104.htm>

- Cloud Buyer's Decision Tree
 - <http://www.opengroup.org/bookstore/catalog/w107.htm>

- Buyer's Requirements Questionnaire
 - <http://www.opengroup.org/bookstore/catalog/w108.htm>

Whitepapers in Progress

- ❑ Cloud Book (compilation of Cloud deliverables) – 2011

- ❑ Business Artifacts Project: -
 - Cloud Metrics Scorecards
 - Cloud Risk
 - Buyers Cloud Taxonomy
 - RFI/RFQ/RFP Input
 - Cloud Computing Business Solution Architecture
 - Cloud Business Usage Framework Whitepaper
 - Cloud Business Patterns Whitepaper
 - Using Cloud to Mitigate Risk Whitepaper
 - Cloud User Profiles Whitepaper

Technical work in Progress

- Cloud Computing Reference Architecture – 4Q2011
 - Cloud meta model and architecture based on the SOA RA, new submissions from IBM (<http://www.opengroup.org/cloudcomputing/doc.tpl?gdid=23840>), Capgemini

- SOCCI Whitepaper (Infrastructure) – 4Q2011
 - Definition of Service Oriented Cloud Computing Infrastructure, SOI and IaaS and architectural building blocks to support them, Draft available

- Cloud Security Reference Architecture 1Q2011
 - Describe Security RA, including capabilities and ABBs, and best practices for SOA and cloud based projects, new paper: 'An Architectural View of Security and Cloud'

- Open Group Cloud Security position paper
 - Compare and Contrast SOA Security RA with other industry Security standards

Future Technical Work under Consideration

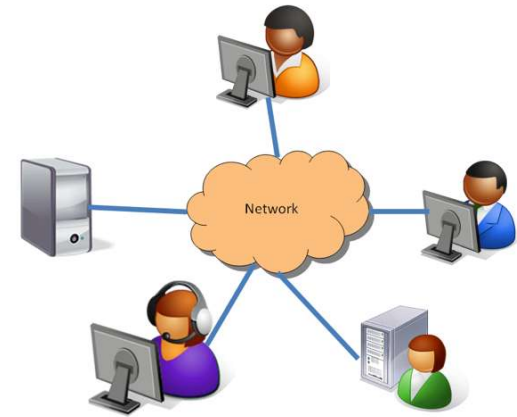
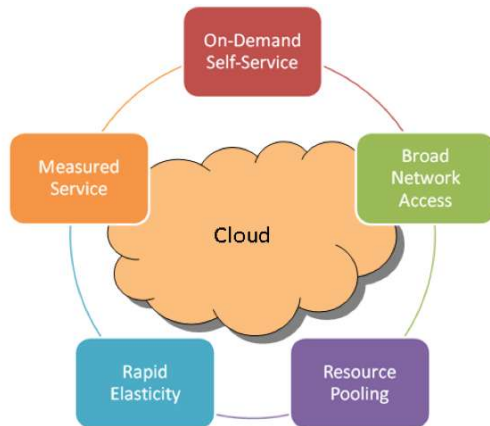
- ❑ TOGAF applied to Cloud Ecosystem
- ❑ Cloud Interaction Ecosystem Language
- ❑ Governance

The Open Group recommends to the Cloud Study Group that:

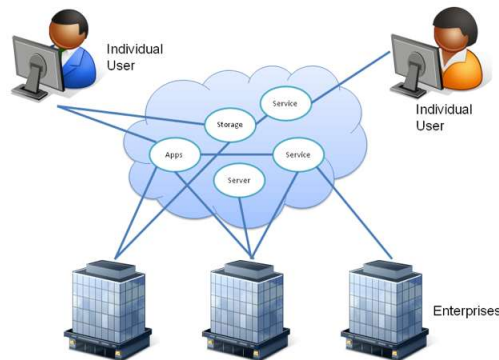
1. That Open Group papers and standards in progress be considered in the industry survey, landscape, or technical work being considered by the Cloud Study Group
2. That the Cloud Study Group identify work for ISO/IEC DAPS 38 which is complementary to the existing work in progress at The Open Group
3. That any Cloud definitions developed be aligned with the NIST definitions at this time

In the future, relevant work from The Open Group on terminology and concepts will be delivered in the Cloud Computing Explained and Cloud Business Taxonomy papers

The Open Group Cloud Work Group



Thank You!



The Value of a Standardized Approach to Cloud Computing

- ❑ Best practices from multiple vendors
- ❑ Reduces risk
 - Knowledge more mature/validated
 - More options
- ❑ Common foundation of understanding
 - Common structure for approaching Cloud
 - No mapping terminology
- ❑ Enables automation of Cloud processes
- ❑ Vendor-neutral