ISO/IEC JTC 1
Information technology
Secretariat: ANSI (United States)

Document type: Officer's Contribution

Title: SC 38 Chairman's Presentation to the November 2013 JTC 1 Plenary meeting in France

Status: This document is circulated for review and consideration at the November 2013 JTC 1 Plenary meeting in France.

Date of document: 2013-10-14

Source: SC 38 Chairman

Expected action: ACT

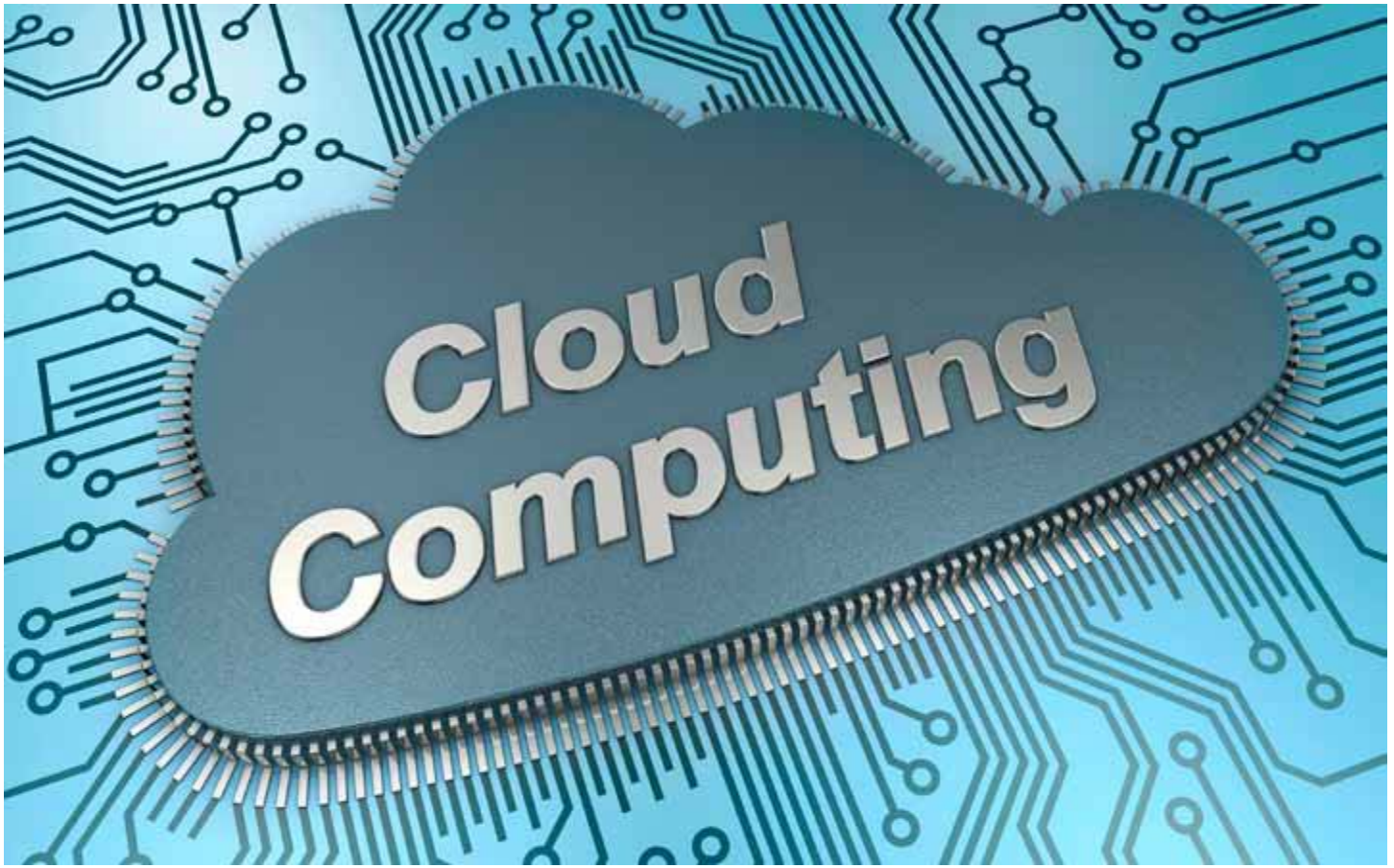
Action due date: 2013-11-04

Email of secretary: lrajchel@ansi.org

Committee URL: http://isotc.iso.org/livelink/livelink/open/jtc1

JTC 1 CLOUD COMPUTING STANDARDIZATION

Don Deutsch, Chair SC 38
Distributed Application Platforms & Services



AGENDA

Where Have we Been?

Where Are We Today?

Where Are We Going?

Observations

Is Cloud Computing Different?

WHERE HAVE WE BEEN?

2009 JTC 1 Resolution 36 Established SC 38 DAPS

- **Standardization for interoperable Distributed Application Platforms and Services including:**
  - **Web Services (Done)**
  - **Service Oriented Architecture (Winding Down), and**
  - **Cloud Computing (Primary Focus)**
- **More focus on process than on product (e.g., ITU-T Collaboration)**

BUT JTC 1 SC 38 Is NOT Alone

- **Many others also doing Cloud Computing standards**
  - **Other JTC 1 Subcommittees**
  - **Other Standards Setting Organizations (SSOs):**
    - ***Formal SDOs, and***
    - ***Consortia***
- **Government initiatives**

Infrastructure Specifications Processed via JTC 1 PAS Process

WHERE ARE WE TODAY?

Continued Robust Engagement in 2 Plenary (with WGs) Meetings/year::

- **National Bodies: 24 P members 8 O member**
- **Delegates: Meetings attract 70 to 120 participants / 15-20 NBs**

Progressed to CD - 2 Parts of 3 Part SOA Reference Architecture

Progressed to DIS - 2 SC 38/ITU-T Collaborative Team Produced Documents

- **Cloud Computing reference architecture**
- **Cloud Computing overview & vocabulary**

Started Work on NP for Cloud Computing Service Level Agreement (SLA)

WHERE ARE WE GOING?

Complete Work on SOA Reference Architecture

Rapidly Progress Cloud Computing SLA

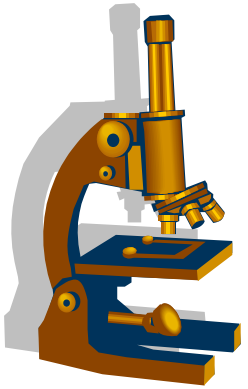
Established Study Group on Future Work (SGFW) to:

Reinforce JTC1 SC 38's leadership in standardization of Cloud Computing and related technologies by considering potential new areas for standardization by

- **Assessing the current state of standardization in Cloud Computing within & outside JTC 1, and**
- **Recommending potential future work for SC 38**
  - ***New Work Item Proposals (NP)***
  - ***Alternative organizational structures for effectively progressing work***

Will NBs Agree to Initiate New Work Within SC 38

OBSERVATIONS



Work to-Date Has Been Foundational & Non-Technical

- **Mis-match of skills and processes**
- **Reluctance to do "green-field" technical CC specifications in JTC 1**
  - ***But few technical standards from any SSO***
  - ***Those progressed via PAS were at lower/infrastructure level***

Lack of Emerging Consensus from Provider Community:

- **Whether and what technical CC standards are required over and above those for the pieces-parts that compose a CC implementation?**
- **Key/dominant market providers not represented/engaged**

ITU-T/SC 38 Collaboration Faltered and Then Produced:

- **JTC 1 perspective:**
  - ***JTC 1 participants provided most of effort (even in Geneva meetings)***
  - ***CT meeting either add burden for JTC 1 hosts or are in Geneva (at no additional cost to ITU-T participants)***
- **ITU-T perspective:**
  - ***Forced to follow JTC 1 procedures (e.g., comment resolution)***
  - ***Proponents are on NBs JTC 1 SC 38 delegations; few additional participants from ITU-T required.***

IS CLOUD COMPUTING DIFFERENT?

Technological Maturity Versus Demand

- **Technology providers are either not engaged or engaged but reluctant to develop technical standards in JTC 1**
- **BUT strong demand for near-terms standards: especially from Governments.**
  - ***Widely recognized as market changing technology***
  - ***Desire to rapidly deploy Cloud Computing solutions to gain promised benefits:***
    - **Reduced cost**
    - **Increase accessibility of computing power through resource sharing**
    - **Better serve individuals, communities and society**
    - **Better control**
- **Need to reconcile technical maturity/provider community reluctance with government driven demand pull.**

Cloud Computing Spans Traditional Technology Areas

- **JTC 1 SC's & other SSO's Areas of Expertise/Work**

Need to Integrate Across Technological and SSO Boundaries

- **JTC 1 PAS and Fast Track**
- **JTC 1 SC Processes and Products May Not be Sufficient**


JTC 1 IS POSITIONED TO PLAY A LEADING ROLE IN GLOBAL CLOUD COMPUTING STANDARDIZATION
WILL WE SEIZE THE OPPORTUNITY?