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ISO/IEC JTC 1/SC 32/WG 2 N1483

Date: November 17, 2010

ISO/IEC JTC 1/SC 32/WG 2

**Data Management and Interchange
Working Group 2
Metadata**

DOCUMENT TYPE	2010 SC 32 SC 38 Liaison Report
TITLE	JTC 1/SC 32 to SC 38 Liaison Meeting Notes SC 38 Plenary, New York City, New York Sept 27-Sept 30, 2010
SOURCE	SC 32/WG 2 Denise Warzel Convenor
PROJECT NUMBER	
STATUS	
REFERENCES	
ACTION ID.	FYI
REQUESTED ACTION	
DUE DATE	
Number of Pages File Size (KB) Diskette Number Issue Number Filenames	8
LANGUAGE USED	English
DISTRIBUTION	P & L Members SC Chair & Secretariat WG 2 Members

I attended Day 1-4 of the 2nd convening of the 5-day SC38 Plenary in New York, Sept. 27-Oct 1 as the ISO/IEC/JTC 1/SC 32 Liaison to SC 38. I presented an update on relevant SC 32 standards in SOA and principals that are being used to guide the work of ISO 19763 Metamodel Framework for Interoperability. The next Plenary is April 11-15 in St. Denis, France.

Day 1 Opening Plenary/Liaison Presentations and WG 1 Web Services – Convenor, Jeff Michinsky (US)

- Experts from CA, France, China, US, Korea, Ireland, UK, Finland attended WG 2 - Web Services
- Terms of Reference:
 - Web Services and SOA Standards Database:
 - maintain inventory of Web Services and SOA standardization – discussion about whether anyone would take responsibility for keeping the inventory up to date. The Cloud Computing group is not maintaining a similar inventory, this was discussed at a previous Plenary and there was not national body agreement to do so.
 - N0056 - **Japan** NB suggests that IPA (Information Technology Promotion Agency of Japan) provide a web interface to access the inventory and maintain the updates to the contents
 - discussion about whether a registry/inventory of Web Service Standards is necessary
 - The Japanese offered to host a Web Services Registry to keep track of existing Web Service standards, they were asked to submit a proposal for the April 11 Plenary. The proposal should include 1) content structure, 2) criteria by which something is added, 3) who controls updates and 4) consider the US contribution on SC 38 N 80 (SC 38 N0 101) and respond to the questions posed therein.
 - the terms of reference specify that the WG will investigate where web service related standardization is already going on, and gaps and commonalities in the existing standardizations
 - concerns about who would do the work, what the process for adding things to the list would be, whether it would be authoritative, etc.
 - the convenor suggested there might be various level of process that would assure the quality
 - the group reached consensus that there should be a registry, of some level of review/process and that WG-1 would accept Japan's proposal, make a recommendation as to what would be included in the registry (Columns), criteria for adding something to the registry (rows), and who gets to update it – look at US Contribution N0101 for the April 2011 Meeting
 - (look into SC 7/WG5 Standards Management)
 - PAS Submissions:

- 3 by WSI - maintain previously approved PAS and Fast Track submissions 29361, 29362, 29363 Web Services Interoperability -- WS-I Basic Profile Version 1.1
 - there was agreement that WG 1 should maintain possible future PAS and Fast Track Submissions
 - WG-1 reflector will be the way they will maintain communications, send email to Marisa to be included on the mailing list
- SOA WG contributions on SOA framework N0089 and N0043(N0090 is the same as 0043)
- The Registry is to be considered an informative reference, not normative
- The next WG 1 meeting will be held as a ½ day during the next SC 38 Plenary

Day 2 WG 2 SOA – Convenor: Yuan Yuan (China)

- **US** (IBM, Oracle, NIST, Microsoft (?)), UK, Korea, Japan, Ireland, Germany, France, Finland, China, Canada (Open Group)
- Agenda was reviewed and adopted
- Mission: enumerate SOA principals, coordinate JTC1 SOA related activities, Investigate where SOA is already ongoing, investigate gaps and commonalities in standards for governance and management and lifecycle aspects. Liaison to SDO's and consortia related to SOA Maintain possible future JTC1 PAS and Fast Track standards
- Discussion of Open Group as a Liaison to SC 32
- Korean comments on the Technical report N13202 were discussed. One comment to change the name was rejected. The title of the report is SOA Technical Framework.
- discussion around development of a normative standard for SOA Terminology. Terminology will be included in the TR – if group decides they could still make Terminology a separate WD NWIP.

The Open Group (TOG) (US member) presented their contributions and recommendations to SC38 for SOA

- Oaisis Reference Model
 - TOG SOA Ontology – TOG SOA definitions and concept relations be adopted. They are represented in OWL: Service, Actor, Task, Service Contract, System, Element Service Interface, Information Type, System, Composition, Choreography, Orchestration, Process, Policy, Event, Effect
- SOA Open Systems Integration Maturity Model (OSIMM) (PAS Submission)
- TOG SOA definitions of SOA and Service be adopted N0067
 - that any SOA architecture or taxonomy be based on aligned with the TOG's SOA Reference Architecture
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- **Canada** proposed a TOC for the SOA Technical Framework TR
 - N0094 **French** proposed several concepts related to SOA – defined Loose Coupling, and a chapter that looks at management principals, and should be consolidated with US document
 - **China** N0083 – proposed framework for SOA, principals for SOA, Architecture
 - **Canada** revised a TOC to include the Chinese contributions.
 - Agreed to adopt an amended Canadian TOC, have editors consolidate comments from NBs and Liaisons, and prepare a working draft of the TOC and paste in content from various contributions.
- 5 Resolutions were drafted:
- 1) Liaison from SC38 WG 2 to JTC 1 SC 7, Yuan Yuan
 - 2) Co Editors: China, USA (Heather), France, Korea, Ireland
 - 3) disposition of comments on SC 38 N 0081, title of TR will be General Technical Principles of SOA, comments from NBs will be included in issues document
 - 4) TOC for Contents of General Technical Principles of SOA TR was accepted, draft to be created using document as referenced in N107

5) Work plan, initial document on Nov 1, NB comments to such documents by Jan 15, telephone meetings March 15 and March 1, March 10 contributions deadline for SC 38 Plenary

SC 38 April 11-15 2011 Plenary meeting 1.5-2 days to review comments

Day 3-4 Study Group on Cloud Computing (SGCC) – Convenor (Korea)

Summary: This group presented the liveliest discussion and debate around standards for cloud computing and what this groups mission (Terms of Reference) should be. The existing JTC1 directives are the following:

Terms of Reference

1. Provide taxonomy, terminology and value proposition for cloud computing
2. Assess current state of cloud computing
3. Document standardization market/user requirements and challenges
4. Collaborate with relevant SDOs and consortia
5. Provide a report of activities and recommendations

Discussion around other groups who provide standards for Cloud Computing ensued, notes below. In summary the group agreed that their primary mission is to bring together these standards and document them, as well as to provide definitions and terminology for Cloud Computing, a reference model and taxonomy, and a reference architecture for cloud computing. Additionally, they agreed they should define the requirements for Cloud computing in order to help define the value proposition for cloud computing (TOR #1). While Cloud Computing has needs for Identify management, Transport mechanisms the group agreed there are already ongoing activities in these areas and no need for SGCC to have work items related to these. In order to combine services from different providers there is a need for standards for governance, provisioning, metering, monitoring and billing (Service Management), the group agreed to cover these in their program of work. Environment and efficiency of data centers is important, but other groups are working on this, SGCC will include something about this in their final report (TOR #5).

The area of Data APIs was discussed and agreed important for Data migration and portability between services and thus work on data APIs and semantics is important but should be left to the JTC 1 or other standards groups already working on these, SC 32 was noted as being responsible for Data Management and Interchange. These standards should provide process support in order to retrieve information from multiple services and service providers.

In the area of data/service lock-in, it was agreed that common API (Cloud to cloud) standards were needed, critical success factors include standards for service availability, reliable computing performance, security guarantee, Security/audit stds, service stds, capacity/quality stds, SLA.

ITU-T Focus Group on Cloud computing addresses definitions, taxonomies, use cases, high level requirements and capabilities, and reference architecture – these overlap with the mission of SC 38 WG-3 – Network as a Service (NaaS). United Nations agency for information and communications technologies. Also concerned with QoS as it relates to NaaS, and Grade of Service (GoS) as a subset of QoS.

Frank Farance will be SC 38 liaison to SC 32. SC 32 needs to designate one liaison to SC 32 (Primary) to coordinate contributions from SC 32.

Canada suggests that they need to decide if they are going to produce another edition of the deliverable (N0047 – base document), or start over. Made several recommendations (N0072) for areas of SC 38 cloud computing study group to focus on, including creation of 4 documents, rather than updating N0047, consider N0047 as an input document

1 - concepts, terminology, acronyms, and models;

2 - listing of current standardization initiatives and existing organizations and standards;

3 - background document including value proposition, requirements and issues;

4 - gap analysis, standardization requirements and candidate areas of SC38 efforts

Main contributions from Canada are N0073, N0074, N0075. Suggests to use/align the terms and definitions in SGCC with the ITU-T Study Group 7 study on Base identity management terms and definitions. (see N0062)

Recommend a liaison from SC38 to SC 27 and ask for a liaison from SC 27 WG 5 to SC 38 (SC 27 WG 5 is working on entity authentication Assurance Framework)

Raises the issue that in 5.2 of N0047, it is not clear what the mandatory attributes are of cloud computing that make it different from other modern computing especially for private or hybrid clouds that are used within an organization, for example are pay-as-you-go or elastic capacity or both considered to be differentiators?

Japan raised issue that defining the requirements should include defining the users and then the requirements for each type of customer, end user, provider

N0092 – TOC scope, references, terms and definitions, abbreviations, acronyms and conventions, introduction to cloud computing, general concepts and characteristics of cloud computing, definition of cloud computing, types of cloud computing, players of cloud computing, requirements of cloud computing

Korean document N0084 – proposes scope, introduction to cloud computing, definition and terminology, taxonomy, related technologies of cloud computing. Korean NB proposed new skeleton TOC to include SAL requirements and then definition of attributes for SLA/QoS and Cloud Computing Services SLA-Quality Elements. Canada pointed out that SLA and QoS are areas in Service Management and should be looked into. Brazil noted that there is a QoS Framework SC 6 ISO 13236 – we should look at this SC 7 WG 25 also considering QoS.

Korea also contributed N0086 – outlining changes to Table 4 of N0047

France – there is not consensus on how to handle the deliverable for TORs (report)

Open Group contribution is that the Open Group has several Cloud Computing working groups:

- Business Artifacts

- Cloud Computing Explained
- Cloud Use Cases
- Cloud Computing Architecture
- Service Oriented Cloud Computing infrastructure
- Security for Cloud and SOA
- There are several white papers also being produced by TOG

Since there is a liaison from SC 38 to Open Group, these contributions should be considered when developing future documents.

Sweden proposed a prioritization for SC 38 SGC High: Data API – API for moving data and semantics (tell them about WG 2 Data Semantics, and WG 4); Security; QoS; Management including governance, metering and monitoring; Terminology. There was discussion about whether an API for moving Programs is needed.

SC 32 offered that they could contribute what they are currently working on for QoS. And Data API Convenor requested that all NBs make contributions as well. There is a perception that WG 3 only works on SQL...but there is a perceived need for standards in Data APIs for other kinds of storage so data can move between clouds where the data is stored in different formats.

France suggested that prioritization should come later. France and then China suggested that a Gap analysis should be done first and then prioritization.

China provided some use cases/scenarios for cloud computing N0091 for individuals, small businesses, and large enterprise end users, for intermediary service provider. They advised SC 38 SGCC consider splitting up into 3 groups to progress the work:

- 1) Existing standards analysis project group, the core work of this group is to analyze existing standards related to cloud computing.
- 2) Key fields' standards project group - Including the project groups of basic standard, interoperate security and auditing, and cloud computing service, which are the standards of cloud computing in key areas.
- 3) Standards technical system project group - The main function of this group is to study the technical system of cloud computing, and develop standard system framework.

Possible Deliverables (N0072):

- 1) concepts, terminology, acronyms, and models
- 2) listing of standardization initiatives, organizations and existing standards
- 3) supporting background documentation including value proposition and issues
- 4) gap analysis, standardization requirements and candidate areas for SC38 efforts

A lot of debate over what the 'deliverables' should be. The Terms of Reference also provide guidance on what needs to be worked on, SC 32 suggested that the SGCC seek volunteers to work on a report for each of these things and report back to the group on the status.

US proposed getting a comprehensive draft so NB's can comment on it. Multiple content/sources of information already. Get something done before 6 months, get in time for comments before next plenary cycle. Need an editing team to create the initial task Consolidate content changes to base document (N47), update table of contents (n84, n91), then publish draft of copy/paste, then go through the document and edit/create disposition of all input to make a comprehensive initial draft of cloud study plan report, with a common voice.

Resolutions:

- re-establish Terms of Reference – no changes (N49)
- SGCC is requesting Liaison – Frank Farance to SC 32
- SGCC category liaison to The Open Group – Heather Krieger

Editorial Team:

Canada, France, UK, USA, Korea, China, Japan, Sweden
USA lead Mark Carlson

Approved work plan to edit N47 from all contributions, including update TOC, circulate for NB review for April.

Approved SGCC Standards analysis work team to carry out further identification and analysis of CC standards in JTC1, SDO's ITU-T, etc, starting with material from Section 7 N47 to start after Nov 1, to work by correspondence, telephone conferencing and/or electronic meeting. Teleconferences beginning in Jan 18 at 1300-1500 UTC/GMT and occurring every two weeks. Work team members can be added until Nov 1.

US, Canada, China are offering to lead the work team. The SGCC Convenor will be the work team lead.