





ISO/IEC JTC 1 Study Group on Smart Cities

Presented by
Alex Tarpinian
Senior Manager, IBM



ANSI WORKSHOP: *Smart and Sustainable Cities*November 21, 2013

Overview

- ☐ ISO/IEC JTC 1 Study Group on Smart Cities
 - Smart Cities and ICT Standardization
 - Study Group Terms of Reference
 - Related JTC 1 entities
 - External Liaisons
 - Next Steps



Smart Cities and ICT Standardization

- ☐ How to leverage existing standards (i.e., Cloud Computing, IoT, Mobile Internet, Big Data, SOA)?
- What kind of new standards should be developed, how and when?
- What development guidance and best practices are needed for using existing standards for Smarter Cities?
- How should JTC 1 coordinate with other SDOs, including ISO, IEC and ITU-T?



Smart Cities and ICT Standardization





Study Group Terms of Reference

- Provide a description of key concepts related to Smart Cities, establish the definition of Smart Cities based on the key concepts, and describe relevant terminology.
- Study and document the technological, market and societal requirements for the ICT standardization aspects of Smart Cities.
- Study and document current technologies that are being deployed to enable Smart Cities.
- Assess the current state of standardization activities relevant to Smart Cities within JTC 1, in other relevant ISO and IEC TCs, in other SDOs and in consortia.
- Identify and propose how JTC 1 should address the ICT standardization needs of Smart Cities
- Provide a report with recommendations, and potentially other deliverables, to the 2014 JTC 1 Plenary
- China National Body leading this Study Group with Ms Yuan Yuan serving as Convenor for the JTC 1 Study Group on Smart Cities



Related JTC 1 Entities

- WG7 Sensor networks
- SC 06 Telecommunications and information exchange between systems
- SC 07 Software and systems engineering
- SC17 Cards and personal identification
- SC 24 Computer graphics, image processing and environmental data representation
- □ SC 25 Interconnection of information technology equipment
- SC 27 IT Security techniques
- SC 29 Coding of audio, picture, multimedia and hypermedia information
- SC 31 Automatic identification and data capture techniques
- SC 36 Information technology for learning, education and training
- SC 37 Biometrics
- SC 38 Distributed application platforms and services (DAPS)
- SC 39 Sustainability for and by Information Technology



Related JTC 1 Entities

- Special Working Group on Internet of Things
 - Terms of Reference updated to include studying Reference Architectures
- Study Group on Big Data
 - New study group to identify standards gaps and propose standardization priorities for future JTC 1 work
- ☐ SC 40, IT Service Management and IT Governance
 - New subcommittee focused on IT activity around governance, risk management, outsourcing, service operations, service maintenance, auditing and digital forensics



External Liaisons

- Systems Evaluation Group (SEG) on Smart Cities
 - Ms. Yuan Yuan has been nominated as the ISO/IEC JTC 1 appointed expert
- ITU-T Focus Group on Smart Sustainable Cities Management
 - Ms. Yuan Yuan nominated by JTC 1 as the initial JTC 1 contact for this group



Next Steps

- ☐ JTC 1 Study Group on Smart Cities
 - Call for participation
 - Initial meeting schedule to include one face-to-face in Beijing
- INCITS TAG for Smart Cities
 - To be formed at the January 2014 Executive Board meeting



Backup

Detailed JTC 1 Plenary Resolutions for New and Updated Entities



JTC 1 Plenary – Resolution 3 Establishment of a Study Group on Smart Cities

JTC 1 recognizes the importance of Smart Cities as a trend that will shape many standards in the ICT sector, and notes a growing interest in this area among a number of standards setting organizations. The topic Smart Cities is relevant to the mission of JTC 1 and intersects with the scope of a number of JTC 1 entities.

Therefore, JTC 1 establishes a Study Group on Smart Cities with the following Terms of Reference:

Terms of Reference

- 1.Provide a description of key concepts related to Smart Cities, establish the definition of Smart Cities based on the key concepts, and describe relevant terminology.
- 2.Study and document the technological, market and societal requirements for the ICT standardization aspects of Smart Cities.
- 3.Study and document current technologies that are being deployed to enable Smart Cities.
- 4.Assess the current state of standardization activities relevant to Smart Cities within JTC 1, in other relevant ISO and IEC TCs, in other SDOs and in consortia.
- 5.Identify and propose how JTC 1 should address the ICT standardization needs of Smart Cities.
- 6. Provide a report with recommendations, and potentially other deliverables, to the 2014 JTC 1 Plenary.

Membership in the SG on Smart Cities is open to:

- 1.JTC 1 National Bodies, JTC 1 Liaisons and approved JTC 1 PAS Submitters;
- 2.JTC 1 /SCs, JTC 1/(S)WGs, relevant ISO and IEC TCs;
- 3. Members of ISO and IEC central offices; and
- 4. Invited standards setting organizations that are engaged in Smart Cities standardization as approved by SG on Smart Cities.
- JTC 1 instructs its Secretariat to issue a call for participation in the Study Group.
- JTC 1 accepts the offer of the Chinese National Body of Ms Yuan Yuan to serve as Convenor and Ms Tangli Liu to serve as Secretary for the JTC 1 Study Group on Smart Cities. Unanimous



JTC 1 Plenary – Resolution 9 Revised Terms of Reference for the SWG on Internet of Things

Terms of Reference

- 1. Identify market requirements and standardization gaps for IoT;
- 2. Encourage JTC 1 SCs and WGs to address the need for ISO/IEC standards for IoT;
- 3. Facilitate cooperation across JTC 1 entities;
- 4. Promote JTC 1 developed standards relevant to IoT and encourage them to be recognized and utilized by industry and other standards setting organizations;
- 5. Facilitate the coordination of JTC 1 IoT activities with IEC, ISO, ITU and other organizations that are developing standards for IoT;
- 6. Periodically report results and recommendations to JTC 1/SWG on Planning;
- 7. Provide a written report of activities and recommendations to JTC 1 in advance of each JTC 1 Plenary meeting; and
- 8. Study IoT Reference Architectures/Frameworks and provide a study report. This study report should be written so it could be referenced in a possible JTC 1 New Work Item Proposal on IoT.
 - The report shall be made available to JTC 1 no later than the 2014 JTC 1 Plenary.

Membership in the SWG on IoT is open to:

- 1. JTC 1 National Bodies, JTC 1 Liaisons and JTC 1 PAS Submitters;
- JTC 1 SCs, JTC 1/WGs, relevant ISO and IEC TCs;
- 3. Members of ISO and IEC central offices; and
- 4. Invited standards setting organizations that are engaged in IoT standardization as approved by SWG on IoT.



JTC 1 Plenary – Resolution 21

Establishment of JTC 1 Subcommittee 40 on IT Service Management and IT Governance

JTC 1 establishes a new Subcommittee 40 on IT Service Management and IT Governance, initially comprising the work of JTC 1/WG 8, SC 7/WG 25 and SC 7/WG 27. The terms of reference of the new SC 40 are as follows:

Title: IT Service Management and IT Governance

Scope: Standardization of IT Service Management and IT Governance

1. Develop standards, tools, frameworks, best practices and related documents for IT Service Management and IT Governance, including areas of IT activity such as audit, digital forensics, governance, risk management, outsourcing, service operations and service maintenance, but excluding subject matter covered under the scope and existing work programs of JTC 1/SC 27 and JTC 1/SC 38.

2.The work will initially cover:

- Corporate Governance of IT: the development of the ISO/IEC 38500 series standards and related documents, and
- Operational aspects of Governance of IT: work in ISO/IEC 30120 series and interfaces with the management of IT as well as the role of governance in the area of business innovation.
- All aspects relating to IT service management and IT-Enabled Services/Business Process Outsourcing

SC 40 will pursue the existing liaison relationships of JTC 1/WG 8, SC 7/WG 25 and SC 7/WG 27, and will establish new liaisons as required including: JTC 1/SC 7, JTC 1/SC 38, ISO PC 259, ISACA, itSMF, OASIS TGF

The National Body of Australia will serve as Secretariat for the SC and John Sheridan will serve as Chair for the SC.

JTC 1 encourages SC 7 and SC 40 to meet in the same location and during the same timeframe when needed and where practical.

JTC 1 also encourages SC 7 and SC 40 to collaborate, particularly over the next year, on whether or not further changes to project placement are desired.

JTC 1 notes that the scope of SC 7 as currently defined remains unchanged by this resolution (see the JTC 1 web site for the current scope of SC 7).

JTC 1 acknowledges the pioneering work of SC 7, which essentially acted as an incubator for SC 40. JTC 1 is looking forward to additional market oriented innovations from these two SCs.

With the establishment of SC 40, JTC 1 disbands JTC 1/WG8, SC 7/WG 25 and SC 7/WG 27 effective December 1, 2013 with thanks to the officers and participants.

The N-numbered documents of all groups shall be passed onto SC 40 for record retention. Approved: Germany objects; Ireland abstains



JTC 1 Plenary – Resolution 27 Establishment of a JTC 1 Study Group on Big Data

Recognizing that Big Data:

- Has been identified by SWG Planning as an important future area for JTC 1 focus,
- Is a topic of consideration within SC 32 as reported to the Plenary, and
- Continues to be of interest to other JTC 1 Subcommittees including SC 27, SC 34 and SC 38

JTC 1 establishes a Study Group on Big Data for consideration of Big Data activities across all of JTC 1 with the following terms of reference:

Terms of Reference

- 1. Survey the existing ICT landscape for key technologies and relevant standards /models/studies /use cases and scenarios for Big Data from JTC 1, ISO, IEC and other standards setting organizations,
- 2. Identify key terms and definitions commonly used in the area of Big Data,
- 3. Assess the current status of Big Data standardization market requirements, identify standards gaps, and propose standardization priorities to serve as a basis for future JTC 1 work, and
- 4. Provide a report with recommendations and other potential deliverables to the 2014 JTC 1 Plenary.

Membership in the SG on Big Data is open to:

- 1. JTC 1 National Bodies, JTC 1 Liaisons and approved JTC 1 PAS Submitters;
- 2. JTC 1 /SCs, JTC 1/WGs, relevant ISO and IEC TCs;
- 3. Members of ISO and IEC central offices; and
- 4. Invited standards setting organizations that are engaged in Big Data standardization as approved by the SG on Big Data.

JTC 1 instructs its Secretariat to issue a call for participation in the Study Group.

JTC 1 accepts the offer from the US of Wo Chang to serve as Convenor for the JTC 1 Study Group on Big Data.

