

# ISO/IEC JTC 1/SC 32 N 1990

Date: 2010-01-20

REPLACES: --

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| <p style="text-align: center;"><b>ISO/IEC JTC 1/SC 32</b></p> <p style="text-align: center;"><b>Data Management and Interchange</b></p> <p style="text-align: center;"><b>Secretariat: United States of America (ANSI)</b><br/><b>Administered by Farance Inc. on behalf of ANSI</b></p> |
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| <b>DOCUMENT TYPE</b>    | Information from JTC 1 Secretariat  |
| <b>TITLE</b>            | Approved Resolutions Adopted at the 24th Meeting of ISO/IEC JTC 1, 18-22 October 2009 in Tel Aviv, Israel |
| <b>SOURCE</b>           | JTC1 Secretariat  |
| <b>PROJECT NUMBER</b>   | 1.32.   |
| <b>STATUS</b>           | Copy of ISO/IEC JTC 1 N9856; resolutions of special interest to SC32 are highlighted                      |
| <b>REFERENCES</b>       |   |
| <b>ACTION ID.</b>       | FYI   |
| <b>REQUESTED ACTION</b> |   |
| <b>DUE DATE</b>         |   |
| <b>Number of Pages</b>  | 24  |
| <b>LANGUAGE USED</b>    | English   |
| <b>DISTRIBUTION</b>     | P & L Members<br>SC Chair<br>WG Conveners and Secretaries   |

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## ISO/IEC JTC 1 N9856

2009-10-24

**Replaces:**

### ISO/IEC JTC 1 Information Technology

**Document Type:** other (deifned)

**Document Title:** Approved Resolutions Adopted at the 24th Meeting of ISO/IEC JTC 1, 18-22 October 2009 in Tel Aviv, Israel

**Document Source:** JTC 1 Secretariat

**Project Number:**

**Document Status:** This document is forwarded to JTC 1 National Bodies information.

**Action ID:** FYI

**Due Date:** 24

**Approved Resolutions Adopted at the 24th Meeting of ISO/IEC JTC 1  
18-22 October 2009 in Tel Aviv, Israel**

**Resolution 1 - Synchronisation of information in ISO and IEC patent databases**

JTC 1 notes the intent from ISO and IEC to dedicate resources toward the synchronisation of information in ISO and IEC patent databases. JTC 1 welcomes this dedication of resources and encourages ISO and IEC to proceed at the earliest opportunity.

**Unanimous**

**Resolution 2 – Advisory Group to Provide Guidance on ISO and IEC patent databases to ITTF**

JTC 1 establishes an advisory group to provide guidance on the provision and maintenance of JTC 1 related information in the ISO and IEC patent databases with the following terms of reference:

- Work with ITTF and their staff to provide JTC 1 input which identifies changes to the ISO and IEC patent databases needed to reflect all information now being given on the common patent declaration form.
- Provide guidance which addresses the synchronization of JTC 1 related information in both databases.
- Consider the UK and Japanese contributions contained in JTC 1 N9767 and N9723.

The initial members of the advisory group are:  
Japan, UK and US

JTC 1 instructs its Secretariat to issue a call for additional participation.

JTC 1 appoints the UK as Convenor of the advisory group.

The advisory group will provide a written report in advance of the November 2010 JTC 1 plenary meeting in Belfast.

**Abstain: France**

**Resolution 3 - ITTF permission notices for use of schemas and similar technical resources specified in standards**

JTC 1 notices that an increasing number of JTC 1 standards contain XML schemas and other technical resources that are expected to be used exactly as specified in many or even all implementations of the standard in question. That being the case, JTC 1:

- requests its SCs to review the permission notices provided by ITTF in relation to XML schemas and other technical resources and to determine whether they meet the needs of implementers of their standards, and to suggest any modifications that would better meet their requirements. Contributions from the SCs are to be submitted to the JTC 1 Secretariat by March 1, 2010 for further forwarding to ITTF.
- requests ISO Central Secretariat to consider input from the SCs and to modify any provisions, as appropriate, so that any SC concerns can be met.
- requests that ITTF provide a written report of their actions in advance of the 2010 Plenary meeting in Belfast.

**Unanimous**

**Resolution 4 - Request to Joint Directives Maintenance Team (JDMT) regarding Accessibility**

JTC 1 asks the SWG-Directives to provide justification so that the SWG-D Convenor may request the JDMT to incorporate the following statement in the upcoming revision of the ISO/IEC Directives:

*“ISO and IEC will work towards eliminating barriers to accessing or participating in ISO and IEC activities and its body of work, especially for people with disabilities and older users.”*

Should the JDMT not accept this request for incorporation in the next version of the ISO/IEC Directives, SWG-D is instructed to ensure that the statement will be included in the next possible version of the JTC 1 Supplement.

**Unanimous**

**Resolution 5 - Request to Joint Directives Maintenance Team (JDMT) regarding 50% voting rule in letter ballots**

JTC 1 asks the SWG-Directives to provide justification so that the SWG-D Convenor may request the JDMT to incorporate the following statement in the upcoming revision of the ISO/IEC Directives:

*“If more than fifty percent of the P-members of the committee have not voted, the vote will have failed.”*

Should the JDMT include this sentence in the ISO/IEC Directives, it will be removed from the JTC 1 Supplement.

**Unanimous**

**Resolution 6 - Request to Joint Directives Maintenance Team (JDMT) regarding Health and Safety Considerations**

JTC 1 instructs SWG-Directives to provide justification so that the SWG-D Convenor may request the JDMT to incorporate the following statement in the upcoming revision of the ISO/IEC Directives:

*“The Secretaries-General may intervene in the processing of a document at any stage if they are notified of any serious health or safety risk likely to arise from the implementation of the standard and are prima facie satisfied of the need to have the matter investigated. If the matter cannot be satisfactorily resolved in consultation with the Committee Secretariat, the Secretaries-General shall refer the draft to Councils for decision.”*

Should the JDMT not accept this request for incorporation in the next version of the ISO/IEC Directives, SWG-D is instructed to ensure that the statement will be included in the next possible version of the JTC 1 Supplement.

**Abstain: USA**

**Resolution 7 - Formal Descriptive Techniques**

JTC 1 resolves to not transfer the Formal Description references in subclauses 6.2.1.7, 6.2.1.8, and 10.4 of the current JTC 1 Directives to the new JTC 1 Supplement. JTC 1 further notes that subcommittees are able to use formal descriptive techniques in JTC 1 deliverables without such procedural language.

**Unanimous**

**Resolution 8 - International Standardized Profiles (ISP)**

JTC 1 resolves to not transfer the ISP material in the current JTC 1 Directives subclause 17 and associated references to the new JTC 1 Supplement.

**Unanimous**

**Resolution 9 - Referencing in the JTC 1 Supplement**

JTC 1 instructs the SWG-Directives to investigate a mechanism, e.g. clause numbering, to be used within the JTC 1 Supplement in order to ensure accurate and persistent references to the appropriate portions of the ISO/IEC Directives, Part 1. The SWG-Directives is instructed to deal with the item at the next possible SWG-Directives meeting and provide a written report in advance of the 2010 Plenary meeting in Belfast.

**Unanimous**

**Resolution 10 - ISO/IEC Directives, JTC 1 Supplement and Standing Documents Relationships**

JTC 1 instructs SWG-Directives to consider the appropriateness of creating and the feasibility of maintaining:

- an integrated version of the ISO/IEC Directives and the JTC 1 Supplement on a regular and timely basis with consideration of how its availability will be assured; and
- a Directives Guidance Document for the ISO/IEC Directives, JTC 1 Supplement and the Standing Documents.

**Unanimous**

**Resolution 11 – Reconstitution of the Study Group on Digital Content Management and Protection**

JTC 1 reconstitutes the Study Group on Digital Content Management and Protection with more focused terms of reference. Specifically, the attention of the SG is targeted on the important issue known as long term “digital preservation”. This term is understood to include the protection and management of both digital data and digital content, including associated metadata. The new terms of reference of the SGDCMP are as follows:

- To study the area of long-term digital preservation, understanding this term to include the safeguarding of digital content over an extended period, and the capture, creation, persistent association and management of related metadata, and the impact of digital rights management technologies.
- To utilize in its study at least the Open Archival Information System (OAIS) reference model defined in ISO 14721:2003 Space data and information transfer systems – Open archival information system -- Reference model.
- To study possible interoperability models for a preservation interoperable framework (PIF) including a Submission Information Package (SIP), and Dissemination Information Package (DIP) as defined in ISO 14721.
- To ensure in its study and recommendations, in so far as possible, that these interoperability models are completely agnostic to the file formats, packaging methods, metadata schemas and metadata binding mechanisms used in the digital data or content being preserved.
- To study and report on the requirements for digital content identification in long term digital preservation and their relation to general digital content identification, in particular, cooperating through a liaison with ISO / TC 46 / SC 9 (Identification and Description) and ISO / TC 46 / SC 11 (Archives/records management).

- To study and report on the creation by JTC 1 or others of technical specifications or guidance that would enable real-world interoperability in digital preservation systems.
- To study and report on the creation by JTC 1 or others of technical specifications or guidance on effective and sustainable management models for operations and maintenance.

The SG is instructed to provide a written report on its activities in advance of the November 2010 JTC 1 Plenary meeting in Belfast.

**Unanimous**

**Resolution 12 – Standing Document on Electronic Document Preparation, Distribution and Archiving**

JTC 1 instructs SWG-Directives to ensure that the Standing Document EDPDA (Electronic Document Preparation, Distribution and Archiving) include a guidance section on the preparation of documents which are both suitable for archiving and interact well with accessibility tools taking account of document JTC 1 N9609.

**Unanimous**

**Resolution 13 – Document Registries in a database format**

JTC 1 instructs SWG-Directives to consider, if appropriate, and advise on the use of document registries in a database format instead of the single view of the register prescribed in clause 10 of current standing document EDPDA (Electronic Document Preparation, Distribution and Archiving).

**Unanimous**

**Resolution 14 – Consideration of policies for handling withdrawal of documents**

JTC 1 instructs SWG-Directives to consider appropriate policies for handling the withdrawal of N numbered documents that have been made available. Consideration should be given to the case that data exposed even for a brief period has been published as an N numbered and a record needs to be maintained in case any dispute arises out of the provenance of the technical content of the publications.

**Unanimous**

**Resolution 15 – Request to Subcommittees of SWG-ARM survey**

JTC 1 encourages those SCs and other JTC 1 entities that did not respond to document JTC 1 N9543, Questionnaire on Current Archival Practices, to provide the relevant information for both the SC and any WGs for which they have information. Responses should be sent to SWG-ARM Secretariat by March 1, 2010.

**Unanimous**

**Resolution 16 – resolution withdrawn**

**Resolution 17 - Approval of Long Term Business Plan**

JTC 1 approves the revised version of the Long Term Business Plan (JTC 1 N 9690) and resolves to work on the activities defined in this document.

**Unanimous**

**Resolution 18 - Approval of Standing Document on the JTC 1 Planning Process**

JTC 1 approves document JTC 1 N 9688 as the *Standing Document on the JTC 1 Planning Process* and instructs its Secretariat to post it on the JTC 1 web site as per resolution 27 of the 2008 Nara Plenary and to circulate its URL to announce its availability.

**Unanimous**

**Resolution 19 - Approval of revised SD 2, Historical Background of JTC 1**

JTC 1 approves document JTC 1 N9689, revised SD 2 on *Historical Background of JTC 1*, to serve as a template for future SC input and instructs the JTC 1 Secretariat to post it on the JTC 1 web site as per resolution 27 of the 2008 Nara Plenary and to circulate its URL to announce its availability.

**Abstain: Netherlands**

**Resolution 20 - SC Input to Standing Document 2, Historical Background of JTC 1**

JTC 1 instructs its SCs to submit a summary of their SC History for inclusion in Standing Document 2, *Historical Background of JTC 1*, as an Annex specific to their Subcommittee. The material is to be submitted to the SWG-Planning Convenor no later than 1 July 2010 for inclusion in the next revision of Standing Document 2 which will be prepared in time for the adoption at the 2010 JTC 1 Plenary.

**Abstain: Netherlands**

**Resolution 21 - Input on Past JTC 1 activities to Standing Document 2, Historical Background of JTC 1**

JTC 1 is in the process of compiling – in the form of a diary - a history of all its activities since it was founded. National Bodies, Liaison Organizations and Subcommittees are requested to canvas current members, and to reach out to past members, for information regarding JTC 1's no longer active Subcommittees and JTC 1 ad hoc groups. Contributions are to be submitted to the SWG-Planning Convenor by 1 July 2010 for inclusion in the following version of Standing Document 2.

**Abstain: Netherlands**

**Resolution 22 - Ongoing ownership and maintenance of Standing Document 2, *Historical Background of JTC 1***

JTC 1 assigns maintenance of Standing Document 2, *Historical Background of JTC 1*, to SWG-Planning through the 2010 JTC 1 Plenary. JTC 1 instructs SWG-Planning to make a recommendation for future ownership and maintenance of Standing Document 2 by 1 October 2010 in time for the 2010 JTC 1 Plenary.

**Abstain: Netherlands**

**Resolution 23 – resolution withdrawn**

**Resolution 24 - Establishment of Study Group on Energy Efficiency of Data Centers**

JTC 1 has identified the energy efficiency of Data Centers as a significant topic in the industry and wishes to understand the current state of relevant standardization and to explore a possible role for JTC 1 (see document JTC1 N 9686). To this end, JTC 1 establishes a Study Group on Energy Efficiency of Data Centers (EEDC) to investigate market requirements for standardization, initiate dialogues with relevant consortia and to identify possible work items for JTC 1.

The Study Group will have the following terms of reference:

- 1) Provide a taxonomy of Data Centers and terminology used for energy efficiency.
- 2) Assess the current state of EEDC standardization within JTC 1, in relevant ISO and IEC TCs, in other SDOs and consortia beginning with document JTC1 N 9686.
- 3) Document standardization market/business/user requirements and the challenges to be addressed.
- 4) Liaise and collaborate with relevant ISO and IEC TCs, SDOs and consortia related to EEDC.
- 5) Hold workshops to gather requirements as needed.
- 6) Provide a report of activities and recommendations to JTC 1.

On topics of common interest (such as virtualization) coordination with the SG Cloud Computing (SGCC) is required.

Membership in the Study Group will be open to:

- 1) JTC 1 National Bodies, Liaisons, and approved JTC 1 PAS submitters
- 2) JTC 1 SCs, relevant ISO and IEC TCs
- 3) Members of ISO and IEC central offices
- 4) Invited SDOs and consortia that are engaged in standardization in EEDC, as approved by the SG

In addition, the Convenor may invite experts with specific expertise in the field.

Meetings of the group may be via face-to-face or preferably by electronic means.

JTC 1 appoints the US as Secretariat for the Study Group of EEDC. The US will name a Convenor within 60 days. JTC 1 instructs the JTC 1 Secretariat to issue a call for participants for the Study Group.

JTC 1 instructs the Study Group Convenor to provide a written report on the activities of the Study Group in advance of the 2010 JTC 1 Plenary meeting.

**Abstain: UK**

#### **Resolution 25 - Establishment of a Special Working Group on Smart Grid**

JTC 1 recognizes the continuing and important evolution of Smart Grid technologies, and notes that many standards consortia are planning to develop Smart Grid standards (see document JTC 1 N 9686). JTC 1 believes that it has specific interest in this area on a continuing basis. Therefore, JTC 1 establishes a Special Working Group on Smart Grid (SWG-Smart Grid).

The SWG will have the following Terms of Reference:

- 1) Identify market requirements and standardization gaps for Smart Grid with particular attention to standards supporting the interoperability of Smart Grid technology and needed international standardization.
- 2) Encourage JTC 1 SCs to address the need for ISO/IEC Smart Grid International Standards.
- 3) Promote JTC 1 developed International Standards for Smart Grid and encourage them to be recognized and utilized by the industry and SDOs.
- 4) Coordinate JTC 1 Smart Grid activities with IEC, ISO, ITU-T and other SDOs that are developing standards for Smart Grid, especially the IEC SMB Strategic Group 3 on Smart Grid.
- 5) Periodically report results and recommendations to JTC 1 SWG-Planning and coordinate ongoing work with related plans.

6) Provide a written report of activities and recommendations in advance of the 2010 JTC 1 Plenary meeting in Belfast.

Membership in the SWG-Smart Grid is open to:

- 1) JTC 1 National Bodies, JTC 1 Liaisons, and approved JTC 1 PAS Submitters
- 2) JTC 1 SCs, relevant ISO and IEC TCs
- 3) Members of ISO and IEC central offices
- 4) Invited SDOs and consortia that are engaged in Smart Grid standardization, as approved by SWG Smart Grid

In addition, the Convenor may invite experts with specific expertise in the Smart Grid field.

JTC 1 appoints the US as Secretariat for the Special Working Group Smart Grid. The US will name a Convenor within the next 60 days.

JTC 1 instructs the JTC 1 Secretariat to issue a call for participants for the Special Working Group.

**Abstain: UK**

**Resolution 26 – Request for IEC Strategic Group 3 smart grid report**

JTC 1 requests ITTF to forward to JTC 1 the IEC Strategic Group 3 report on smart grid when it becomes available following approval by the relevant IEC body in November 2009.

**Unanimous**

**Resolution 27 – Web Site Improvements**

In light of the successful resolution of JTC 1 identified issues and the progress made on the public page template and ecommittee platform, JTC 1 disbands the Ad Hoc on web site improvements with thanks to the participants for their efforts and instructs its Secretariat to work with ISO staff in the implementation of the new site. JTC 1 stresses to ISO the importance of making the site accessible.

**Unanimous**

**Resolution 28 – Use of the new public page template**

JTC 1 strongly encourages all JTC 1 entities to use the public page template as the entry point to their individual web sites in order to ensure a consistent look, feel and message across the JTC 1 enterprise.

**Unanimous**

**Resolution 29 – resolution withdrawn**

**Resolution 30 – resolution withdrawn**

**Resolution 31- Future activities of SWG-ARM**

Having noted the limited National Body participation in SWG-ARM, JTC 1 instructs its Secretariat to issue a 90-day call for participation in SWG-ARM. If fewer than five National Bodies agree to actively participate in the SWG, the SWG will cease activity, and responsibility for further actions relating to Archiving and Retrieval mechanisms will be transferred to the SWG-Directives.

National Bodies are reminded of the terms of reference of SWG-ARM and its tasks for 2009/2010:

At the ISO/IEC JTC 1 Plenary meeting in Gold Coast, Australia, October 2007, the SWG-ARM was established with the following terms of reference:

- 1) Gather archival and retrieval requirements of JTC 1 and its subgroups and liaison organizations and generate a set of common requirements and other requirements as necessary. SWARM will classify these requirements into long-term and short-term archival and retrieval requirements.
- 2) Identify a mechanism to work proactively between meetings to make forward progress.
- 3) Publish an overview of identified archival and retrieval requirements.
- 4) Identify policies, strategies, tools and technologies that can meet those requirements.
- 5) Track public laws, policies/measures and guidelines to ensure that policies covering issues such as security and privacy are adequately addressed.
- 6) Prepare guidelines for implementation in JTC 1 and its subgroups which can then be incorporated in the JTC 1 Directives.
- 7) Actively invite and encourage participation from organizations with relevant expertise and data to assist in the tasks.

The following activities were approved for progression in the 2009/2010 timeframe:

- Develop guidance material on the preparation of documents which are suitable for archiving including the preservation of supporting audio-visual material used in standardization meetings and test data used in the development of standards.
- **Develop a proposal for a minimum set of metadata to be included in JTC 1 documents, building on work done in JTC 1 SC 32 in ISO/IEC 19706.**
- Investigate the introduction of templates with the provision for recording metadata, for SC and WG input documents, and encouraging their use in SCs and WGs to simplify the creation of archiveable versions of the documents.
- Investigate issues for archiving the information used in standards development from collaboration tools (e.g., wikis, blogs) and the use of Software As A Service.

**Unanimous**

### **Resolution 32 – Promotion of JTC 1 Standards**

JTC 1 recognizes the need and value of promoting its standards to the widest possible audience, especially to those who have little knowledge of the vast impact ICT standards have on everyday life. To this end, JTC 1, with the assistance of National Bodies, SCs and ISO staff, will produce a short “day in the life” video comprising short video clips depicting how a variety of everyday tasks are made possible through a JTC 1 standard (e.g., taking cash from an ATM machine; downloading pictures from your camera to your laptop) for distribution via various venues to the widest possible audience for broad promotion. National Bodies and SCs are requested to film such a brief clip or clips and to provide them to the JTC 1 Chairman and Secretariat by 14 February 2010. The Chairman and Secretariat will work with ISO staff to produce the JTC 1 video so that clips can be made publicly available through JTC 1 and SC web sites. The JTC 1 Chairman and Secretariat will investigate the possibility of including closed caption.

**Unanimous**

### **Resolution 33 – Review of JTC 1 Liaisons**

Having reviewed its existing liaison relationships, JTC 1 instructs its Secretariat to forward document JTC 1 N9814, Review of JTC 1 Liaison Relationships, to ITTF. ITTF is asked to contact each organization where it is noted that there is “no activity or interaction” to ask if the organization wishes to continue a liaison relationship with JTC 1. A response from the organization is requested to be received by March 1, 2010. (It is noted to ITTF that the phrase “no activity or interaction” is very general but that there may be an exchange of information taking place.)

JTC 1 further notes that ISO will no longer maintain Category B Liaison and therefore ITTF is requested to communicate to those organizations a suggestion that a liaison relationship with a JTC 1 SC might be more appropriate.

**Unanimous**

### **Resolution 34 - Establishment of JTC 1 Working Group 7 on Sensor Networks**

Sensor networks are being widely used across a whole sphere of applications; it is important for JTC 1 to undertake standardization in the area of generic solutions for sensor networks and application-oriented sensor networks within the overall scope of JTC 1.

To this end, JTC 1 establishes JTC 1 Working Group 7 on Sensor Networks with the following terms of reference:

- 1) In the area of generic solutions for sensor networks, undertake standardization activities that support and apply to the technical work of all relevant JTC 1 entities and to other standards organizations. This would include activities in sensor networks such as the following:
  - a) Standardization of terminology.
  - b) Development of a taxonomy.
  - c) Standardization of reference architectures.
  - d) Development of guidelines for interoperability.
- 2) In the area of application-oriented sensor networks, identify gaps and commonalities as they may impact standardization activities within the scope of JTC 1. Further, share this information with relevant entities within and outside of JTC 1. Unless better pursued within another JTC 1 entity, the following standardization activities may be pursued as projects by this Working Group:
  - a) Addressing the technology gaps within the scope of JTC 1 entities.
  - b) Exploiting technology opportunities where it is desirable to provide common approaches to the use of sensor networks across application domains.
- 3) In order to foster communication and sharing of information between groups working in the field of sensor networks:
  - a) Seek liaison relationships with all relevant JTC 1 SCs/WGs.
  - b) Seek liaison relationships with other organizations outside JTC 1 including but not limited to: relevant ISO TCs, IEC TCs and ITU-T SGs, IEEE 1451, IEEE 1588, IEEE P2030, IEEE 802.15, Open Geospatial Consortium, ZigBee Alliance, IETF 6LoWPAN, IETF ROLL WG, ETSI, IPSO Alliance, EPCglobal, ISA 100, LONMARK, KNX Association, Zwave Alliance.
  - c) Consider the possibility of conducting joint projects with relevant ITU-T SG.
  - d) Seek input from relevant research projects and consortia.

4) Membership in the Working Group is open to representatives from all National Bodies, JTC 1 liaisons and JTC 1 approved PAS submitters.

The National Body of Korea will provide Dr. Yongjin KIM as Convenor and Ms. Jooran Lee as Secretariat.

**Abstain: Singapore**

**Resolution 35 - Transfer of Sensor Networking Application Project**

To support generic standardization of reference architectures, JTC 1 will provide ongoing development of “Reference model for sensor network applications and services” project by transferring ISO/IEC 29182 from SC 6 to the Working Group on Sensor Networks.

**Unanimous**

**Resolution 36 - New JTC 1 Subcommittee 38 on Distributed Application Platforms and Services (DAPS)**

JTC 1 establishes a new JTC 1 Subcommittee 38 on Distributed Application Platforms and Services (DAPS) with the following terms of reference:

*Title: Distributed Application Platforms and Services (DAPS)*

*Scope: Standardization for interoperable Distributed Application Platform and services including:*

- *Web Services,*
- *Service Oriented Architecture (SOA), and*
- *Cloud Computing.*

*SC 38 will pursue active liaison and collaboration with all appropriate bodies (including other JTC 1 subgroups and external organizations, e.g., consortia) to ensure the development and deployment of interoperable distributed application platform and services standards in relevant areas.*

As per the JTC 1 Directives, SC 38 will establish its own substructure at its first meeting. Based on discussions at the JTC 1 Plenary, it is anticipated that SC 38 will initially establish subgroups as follows:

- a. A Working Group on Web Services
  - o Draft Terms of Reference:
    - i. Enhancements and maintenance of the Web Services registry (inventory database of Web Services and SOA Standards).
    - ii. Ongoing maintenance of previously approved standards from WS-I PAS submissions, ISO/IEC 29361, ISO/IEC 29362 and ISO/IEC 29363.
    - iii. Maintenance of possible future PAS and Fast Track developed ISO/IEC standards in the area of Web Services.
    - iv. Investigation of where web service related standardization is already ongoing in JTC 1 entities.
    - v. Investigate gaps and commonalities in work in “iv” above.

- b. A Working Group on SOA
  - o Draft Terms of Reference:
    - i. Enumeration of SOA principles.
    - ii. Coordination of SOA related activities in JTC 1.
    - iii. Investigation of where SOA related standardization is already ongoing in JTC 1 entities, and
    - iv. Investigate gaps and commonalities in work in “iii” above
  
- c. A Study Group on Cloud Computing (SGCC) to investigate market requirements for standardization, initiate dialogues with relevant SDOs and consortia and to identify possible work items for JTC 1.
  - o Draft Terms of Reference:
    - i. Provide a taxonomy, terminology and value proposition for Cloud Computing.
    - ii. Assess the current state of standardization in Cloud Computing within JTC 1 and in other SDOs and consortia beginning with document JTC 1 N 9687.
    - iii. Document standardization market/business/user requirements and the challenges to be addressed.
    - iv. Liaise and collaborate with relevant SDOs and consortia related to Cloud Computing.
    - v. Hold workshops to gather requirements as needed.
    - vi. Provide a report of activities and recommendations to SC 38.

Topics related to Energy Efficiency of Data Centers are excluded. On topics of common interest (such as virtualization), coordination with the EEDC SG is required.

Membership in the Study Group will be open to:

1. National Bodies, Liaisons, and JTC 1 approved PAS submitters
2. JTC 1 SCs and relevant ISO and IEC TCs
3. Members of ISO and IEC central offices, and
4. Invited SDOs and consortia that are engaged in standardization in Cloud Computing, as approved by the SG

In addition, the Convenor may invite experts with specific expertise in the field.

Meetings of the group may be via face-to-face or preferably by electronic means.

The SC 38 Secretariat will issue a call for participants for the Study Group.

The SGCC Convenor is instructed to provide a report on the activities of the Study Group at the SC 38 2010 Plenary meeting.

Administrative support and leadership of SC 38 will be provided as follows:

- a. The US National Body will serve as Secretariat for the SC and its Working Groups, and Dr. Donald R. Deutsch from the US National Body will serve as the Chair for the SC.
- b. The National Body of China will provide Ms. Yuan Yuan as the Convenor of the Working Group on SOA.
- c. The US National Body will provide the Convenor of the Working Group on Web Services.
- d. The National Body of Korea will provide Dr. Seungyun LEE as the Convenor of the Study Group on Cloud Computing. The National Body of China will provide Mr. Ping ZHOU as the Secretary of the Study Group on Cloud Computing.

**Abstain: Ireland, UK**

**Resolution 37 - Co-ordination of meetings**

JTC 1 reminds its subgroups that it is very important that meeting dates and venues are well coordinated and not changed within 2 months prior to the meeting.

**Unanimous**

**Resolution 38 – National Body Participation in the IT Vocabulary Maintenance Team (ITVMT)**

JTC 1 requests each participating National Body in the ITVMT either to reconfirm its Validation Team member or appoint one person to become part of the Validation Team.

JTC 1 notes that all P-members, A-liaison organizations and committee-internal liaisons have the right to appoint one member to the team. A validation team comprises a minimum of 5 P-members. Representatives of P-members have the right to vote; representatives of A-liaisons and committee-internal liaisons do not have the right to vote, but may submit comments. JTC 1 also notes that the described procedure asks for very short response times from the validation team members.

Therefore, the National Bodies should appoint one or more deputies that can take over the task when the official member is unavailable (due to travel, business, etc.). The appointing bodies decide on the duration of an appointment and also organize any supporting network of experts at the national level.

**Unanimous**

**Resolution 39 – Subcommittee Participation in the ITVMT**

JTC 1 instructs its Subcommittees that, as the Subcommittees develop new IT terminology, the Subcommittees should submit this information to the Maintenance Team for uploading into the ISO Concept Database. Further, as the first phase of maintaining the JTC 1 Vocabulary is in its final stages, JTC 1 instructs each Subcommittee to appoint a representative, if not already done, who will provide the Subcommittee's standardized vocabulary to the ITVMT. Subcommittees are asked to ensure that the ITVMT is apprised of any updates or new versions of their vocabulary.

**Unanimous**

**Resolution 40 - Transfer of ISO/IEC 2382-17, Information technology – Vocabulary – Part 17: Databases**

JTC 1 transfers ISO/IEC 2382-17, Information technology -- Vocabulary -- Part 17: Databases, from JTC 1 to SC 32 for maintenance.

**Unanimous**

**Resolution 41 - Release of Standards That Fall Under the ISO and IEC Criteria for No Cost Availability**

JTC 1 instructs its Secretariat to request the ITTF to make the following documents available at no cost as they meet the previously established ISO and IEC criteria (JTC 1 N 7604).

- ISO/IEC 19778-1, Information technology -- Learning, education and training -- Collaborative technology -- Collaborative workplace -- Part 1: Collaborative workplace data model

NOTE: Satisfies criterion 7

- ISO/IEC 8824 Series, Abstract Syntax Notation One (ASN.1)
- ISO/IEC 8825 Series, ASN.1 encoding rules

NOTE: Satisfies criterion 2

- ISO/IEC 9834-1, Open Systems Interconnection - Procedure for the Operation of OSI Registration Authorities – General Procedure and Top Arc of the International Object Identifier Tree
- ISO/IEC 9834-8, Open Systems Interconnection -- Procedures for the operation of OSI Registration Authorities -Generation and Registration of Universally Unique Identifiers (UUIDs) and their use as ASN.1 Object Identifier components
- ISO/IEC 9834-9, Open Systems Interconnection - Procedures for the operation of OSI Registration Authorities -Registration of object identifier arcs for applications and services using tag-based identification

NOTE: Satisfies criterion 2

- ISO/IEC 24734 and 24735 test pages

Note: Satisfies criterion 4

- ISO/IEC TR 24714-1:2008, Information technology – Biometrics – Jurisdictional and societal considerations for commercial applications – Part 1: General guidance

Note: Satisfies criterion 6

- ISO/IEC TR 29110 Parts 1, 3 and 5

Note: Satisfies criterion 5

**Unanimous**

**Resolution 42 - Request to make vocabulary standards Available at No Cost**

Resolution 32 of the 1997 JTC 1 Plenary meeting Ottawa requested that ISO/IEC 2382 Vocabulary Standards (a multi-part standard) be made available on the Web. Several parts of ISO/IEC 2382, but not all parts, are currently available at no cost. JTC 1 requests that all parts of ISO/IEC 2382, current and future, also be made available at no cost as was the intent of the 1997 resolution.

**Unanimous**

**Resolution 43 - IEEE PSDO Agreement with ISO**

JTC 1 requests ISO TMB and IEEE to include in the PSDO Agreement JTC 1 and all its SCs not currently identified within the ISO/IEEE Partner Standards Development Organization (PSDO) Agreement. JTC 1 instructs its secretariat to circulate the PSDO Agreement to JTC 1 and its SCs once this change is made.

**Abstain: Switzerland**

**Resolution 44 – Subcommittee Scopes**

JTC 1 reminds its SCs that the only determinant of the limits of their work is the scope statement for the SC. The title of an SC does not determine the limits of an SC's work. JTC 1 draws the attention of SC Chairs to the JTC 1 Directives, Part 1 Section 2.5.2.2 that states, in part, "The scope is a statement precisely defining the limits of the work of the SC within the scope of JTC 1."

**Unanimous**

**Resolution 45– Request to ITTF on behalf of SC 25 concerning History of Projects**

JTC 1 appreciates the progress in the presentation of the SC 25 program of work as available on the ISO home page that is also linked to the SC 25 homepage in the IEC as well as linking the Experts of SC 25/ WGs into their system. This is useful but not sufficient. SC 25 requires that the full history of its projects be available on the WWW preferably in the format available for IEC committees. Since manual attempts to have such data available and up to date have not been successful over the years, JTC 1 asks ITTF for automatic means to acquire such data as provided by electronic voting.

**Unanimous**

**Resolution 46 – Appointment of Officers**

In accordance with the JTC 1 Directives, JTC 1 makes the following appointments/re-appointments effective this date:

- Lin GAO, Study Group Digital Content Management and Protection Convenor (through the next Plenary)
- Frank Farance, ITSIG Liaison (through the next Plenary)
- Donald Deutsch, SC 38 Chairman (through the 2012 Plenary)
- Yongjin KIM, Convenor JTC 1 Working Group 7 (through the 2012 Plenary)
- Josée Auber, JTC 1/ITU-T Liaison (through the next Plenary)
- Kate Grant, JTC 1/IEC TC 100 Liaison (through the next Plenary)
- Akira Saito, SC 28 Chairman (through the 2012 Plenary)
- Dae Young KIM, SC 6 Chairman (through the 2012 Plenary)
- Ha-Jine KIMN, SC 24 Chairman (through the 2012 Plenary)
- Kohtaro Asai, SC 29 Chairman (through the 2012 Plenary)
- Yong-Woon KIM, Convenor SG Green ICT (through the next Plenary)
- Richard Dixon-Hughes, JTC 1 Liaison to ISO/TC 215 (through the next Plenary)

**Unanimous**

**Resolution 47- Re-appointment of SC 31 Chairman**

At two previous JTC 1 Plenary meetings, JTC 1 approved the following resolutions which stated JTC 1's expectation of attendance of SC Chairmen at meetings.

Resolution 12 of the 2005 Banff Plenary - Appreciation to SC Chairmen and Secretaries and Expectation of SC Chairmen

*JTC 1 reminds those SC Chairs that did not attend this meeting that the National Bodies get great value out of the SC Chairs' participation in the plenary and expects them to participate directly in the future. JTC 1 instructs the JTC 1 Special Working Group on Directives to ensure that the JTC 1 Directives reflect this expectation of SC Chairmen's participation in JTC 1 Plenary meetings.*

Resolution 14 of the 2007 Gold Coast Plenary - Attendance of Subcommittee *Chairmen at JTC 1 Plenary Meetings - JTC 1 reiterates its expectation that all SC Chairmen attend and participate in the annual JTC 1 Plenary meeting.*

JTC 1 notes that Mr. Biss was not present at the 2006 Plenary (South Africa) when he was first appointed nor at the 2008 Plenary in Nara. As neither Mr. Biss nor the SC 31 Secretariat are present at this meeting, JTC 1 resolves to delay the SC 31 request for reappointment of Mr. Biss as SC 31 Chairman until our next plenary. Mr. Biss is appointed to serve as Acting Chair of SC 31 until the JTC 1 2010 Plenary.

**Unanimous**

#### **Resolution 48 – Establishment of Category C Liaisons**

JTC 1 recommends that ITTF grant Category C Liaison status as follows:

- SC 22/WG 14 and MISRA (as per JTC 1 N 9828)
- JTC 1/WG 6 and itSMFI (as per JTC 1 N9875)
- SC 29/WG 11 and Mobile Convergence Solution Forum (as per JTC 1 N9736)
- SC 32/WG 2 and the Data Management Association International (as per JTC 1 N9753)
- SC 32/WG 2 and OASIS ebXML Registry Technical Committee (as per JTC 1 N9754)

**Unanimous**

#### **Resolution 49 – ISO/TC 232 Scope**

JTC 1 requests the ISO TMB to re-insert the text *"The TC shall not create standards in the field of information technologies for learning, education, and training."* into the initially approved Scope of ISO TC232 as contained in ISO/TS/P 201. This text was inadvertently left out of TMB resolution 64/2007.

**Unanimous**

#### **Resolution 50 – Report Regarding Nara Resolution 34 on African Languages**

JTC 1 thanks SC 2 for their report contained in document JTC 1 N9751. JTC 1 instructs its Secretariat to forward this document to the speakers at the last JTC 1 Technology Watch in Nara in 2008 as well as to ISO DEVCO.

**Unanimous**

#### **Resolution 51 – Appointment of Korea Internet & Security Agency (KISA) as Registration Authority for ISO/IEC 9834-9**

JTC 1 nominates KISA as the Registration Authority for ISO/IEC 9834-9, Open Systems Interconnection - Procedures for the operation of OSI Registration Authorities: Registration of object identifier arcs for applications and services using tag-based identification, and instructs its secretariat to forward this nomination to ISO TMB and IEC SMB for endorsement.

**Unanimous**

#### **Resolution 52 – Stabilization of Standards**

JTC 1 instructs its Secretariat to request the ITTF to grant stabilized status as follows:

- ISO/IEC 7064:2003 (1st edition) – Information technology – Security techniques – Check character systems

**Unanimous**

**Resolution 53 - Transfer of SC 7 Projects to JTC 1/WG 6**

JTC 1 approves the transfer of the following projects from SC 7 to JTC 1/WG 6:

- ISO/IEC 29151, Software and System Engineering -- Corporate Governance of Information Technology
- ISO/IEC 29184, Information Technology -- Corporate Governance of IT Implementation Guide.

JTC 1 also approves a one year extension to the current project limit dates for ISO/IEC 29184.

**Unanimous**

**Resolution 54 - Termination of Category C Liaison**

JTC 1 instructs its Secretariat to request the ITTF to terminate Category C Liaison status as follows:

- Universal Home API (UHAPI) and SC 29/WG 11.

**Unanimous**

**Resolution 55 - ISO/IEC/ITU/UN ECE MoU Management Group Activities**

JTC 1 authorizes the following delegation, and others as appointed by the JTC 1 Chairman, to represent JTC 1 at the ISO/IEC/ITU/UN ECE MoU Management Group meetings until the 2010 JTC 1 Plenary meeting and instructs them to prepare a written report in advance of the 2010 JTC 1 Plenary.

- Wenfeng Sun
- Yong-Jae KIM
- Jim MacFie

**Unanimous**

**Resolution 56 - Establishment of a Study Group on Green ICT**

JTC 1 has identified Green ICT as a significant topic in the industry and wishes to understand the current status of relevant standardization and to explore a possible role for JTC 1 (see document JTC1 N 9686). To this end, JTC 1 establishes a Study Group on Green ICT (SGGICT) to investigate market requirements for standardization, to initiate dialogues with relevant SDOs and consortia and to identify possible new work items for JTC 1 to help reduce the environmental impact by applying ICT's technologies in other identified business sectors.

The Study Group will have the following terms of reference:

- Assess the current state of standardization in Green ICT within JTC 1 and in other SDOs and consortia beginning with document JTC1 N 9686 with a special focus on assessing what ICT technologies other sectors use to reduce their environmental impacts and how the use of ICT technologies can help to reduce the environmental impact of additional sectors.
- Liaise and collaborate with ISO and IEC TCs and other relevant SDOs and consortia related to Green ICT and the reduction of the environmental impact of other sectors through application of ICT technologies to document standardization market/business/user requirements and the challenges to be addressed through standardization.
- Survey best practices for green technology development and document recommended attributes for JTC 1 standards development. The document will be shared with JTC 1 SCs and WGs for their use in standards development.

- Hold workshops to gather requirements as needed.
- Excluded are the activities of the SG EEDC.
- Provide a report of activities and recommendations to JTC 1.
- Membership in the Study Group will be open to: JTC 1 National Bodies, Liaisons, and JTC 1 approved PAS submitters
- JTC 1 SCs and relevant ISO and IEC TCs
- Members of ISO and IEC central offices
- Invited SDOs and consortia that are engaged in standardization in Green ICT, as approved by the SG

In addition, the Convenor may invite experts with specific expertise in the field.

Meetings of the group may be via face-to-face or preferably by electronic means.

JTC 1 appoints Yong-Woon KIM as Convenor and (tbd from NB of Korea) as Secretary for the Study Group of Green ICT and instructs the JTC 1 Secretariat to issue a call for participants for the Study Group.

JTC 1 instructs the Study Group Convenor to provide a written report on the activities of the Study Group in advance of the 2010 JTC 1 Plenary meeting.

**Objection: UK**

**Resolution 57 – JTC 1 ballot comments on Standing Document "*Guide for ITU-T and ISO/IEC JTC 1 cooperation*"**

JTC 1 instructs its Secretariat to forward to ITU-T any change agreed during the Tel Aviv meeting of SWG-Directives and all comments received during the approval ballot of Standing Document - "*Guide for ITU-T and ISO/IEC JTC 1 cooperation*", in time for their consideration by ITU-T (by January 22nd, 2010 latest).

**Unanimous**

**Resolution 58 – JTC 1 Participation in ITU-T Activities**

JTC 1 notes with interest the report of the JTC 1/ITU-T Liaison Officer on developments within the ITU-T. Based on this report, JTC 1 instructs its Secretariat to apply to the ITU-T for participation on the following Activities:

- **Joint Coordination Activity for ICTs and Climate Change** (with participation from SG EEDC, JTC 1/WG 7 on Sensor Networks and SG on Green ICT)
- **Focus Group "Future Networks"** (FG FN) (with participation from SC 6)
- **Joint Coordination Activity for Network Aspects of Identification Systems** (with participation from JTC 1/WG 7 on Sensor Networks and SC 17)

**Unanimous**

**Resolution 59 – JTC 1 and ITU-T Chairmen's Meetings**

JTC 1 accepts the ITU-T proposal for a "Chairmen's meeting" between ITU-T Study Group Chairmen, JTC 1 Subcommittee Chairmen and JTC 1 SWG and SG Convenors as mentioned in document JTC 1 N 9743, to be held on February 4 and 5, 2010 in Geneva.

JTC 1 requests the JTC 1 Liaison Officer to ITU-T, Ms. Josée Auber, to work with the JTC 1 Chairman, with the Chairmen of SC 6, SC 25, SC 27, SC 29, SC 37 and SC 38, with the JTC 1 Secretariat, and with the ITU-T Liaison representative and other ITU-T officers to prepare the proposed agenda and finalise the meeting invitation. JTC 1 requests that the proposed agenda and meeting invitation be submitted to JTC 1 no later than 30 November 2009.

**Unanimous**

**Resolution 60 – Revised SC 35 Scope**

JTC 1 approves the revised SC 35 scope as follows:

Standardization in the field of user-system interfaces in information and communication technology (ICT) environments and support for these interfaces to serve all users, including people having accessibility or other specific needs, with a priority of meeting the JTC 1 requirements for cultural and linguistic adaptability.

This includes:

- user interface accessibility (requirements, needs, methods, techniques and enablers);
- cultural and linguistic adaptability and accessibility (such as evaluation of cultural and linguistic adaptability of ICT products, harmonized human language equivalents, localization parameters, voice messaging menus);
- user interface objects, actions and attributes;
- methods and technologies for controlling and navigating within systems, devices and applications in visual, auditory, tactile and other sensorial modalities (such as by voice, vision, movement, gestures);
- symbols, functionality and interactions of user interfaces (such as graphical, tactile and auditory icons, graphical symbols and other user interface elements);
- visual, auditory, tactile and other sensorial input and output devices and methods in ICT environments (for devices such as keyboards, displays, mice);
- user interfaces for mobile devices, hand-held devices and remote interactions.

**Abstain: Norway**

**Resolution 61 – Standards and Distance Learning**

JTC 1 requests SC 36 to consider the establishment of a Study Group on Standards and Distance Learning with the following terms of reference:

Title: Standards and Distance Learning

Terms of Reference:

- 1) Collect from each SC information needed to develop an integrated solution to the problem utilizing IT standards developed by JTC 1 Subcommittees. This may include:
  - a list of solutions to problems relating to distance education within their own SC
  - a list of gaps in different SC programs of work as it relates to distance education

**Unanimous**

### **Resolution 62 - Future Meetings**

The following schedule of JTC 1 Plenary Meetings is agreed:

|                       |                               |
|-----------------------|-------------------------------|
| 8-13 November 2010    | Belfast, Northern Ireland, UK |
| 31 Oct – 5 Nov 2011   | USA                           |
| Or 7-12 November 2011 |                               |
| November 2012         | Republic of Korea             |

National Bodies and Liaison Organizations are strongly encouraged to consider the possibility of hosting future JTC 1 Plenary meetings.

**Unanimous**

### **Resolution 63 - Timing of Contributions for the November 2010 JTC 1 Plenary Meeting in Belfast**

JTC 1 establishes the following deadlines for contributions for the November 2010 plenary meeting in Belfast, Northern Ireland:

Documents for the Belfast Plenary, particularly those raising new issues/new agenda items or those for which a final agreement at the meeting is desired, must be delivered to the Secretariat no later than **1 October 2010** for posting on the JTC 1 web server. Documents received at the Secretariat's office after **1 October 2010** will be returned to the submitter and will not be considered.

The following exceptions are permitted:

Comments on posted documents and presentations to be delivered at the plenary provided they are received at the Secretariat's office in a form suitable for immediate posting, not later than **15 October 2010**.

A proposed document revision from a project editor, which incorporates comments received prior to the meeting and which is intended to be developed further at the meeting, provided they are received at the Secretariat's office in a form suitable for immediate posting, not later than **15 October 2010**.

The final agenda for adoption and use at the Belfast Plenary will be posted to the JTC 1 web site on **22 October 2010**.

For contributions submitted via email, the JTC 1 Secretariat will provide a mechanism by which the submitter will be notified that the contribution has been received at the Secretariat's office.

Nevertheless, ultimately the submitter is obligated to ensure receipt by:

- a) checking the JTC 1 web site for document posting.
- b) checking iterations of draft agendas for agenda items and associated document references, (a "last call" agenda will be issued on **8 October 2010**).
- c) corresponding with the Secretariat.

JTC 1 instructs its Secretariat to strictly enforce these deadlines.

**Unanimous**

**Resolution 64 - JTC 1 Representatives to the ISO Steering Committee on Image Technology**

JTC 1 authorizes the following delegation to represent JTC 1 at the ISO Steering Committee on Image Technology meetings until the 2010 JTC 1 Plenary meeting in Belfast and instructs them to coordinate the submission of a written report for consideration at the Belfast Plenary.

- Kate Grant (SC 29 and HoD)
- Thomas Schmelzer (SC 28)
- Klaus Richter (SC 28 alternate)
- Laura Moore (SC 24)

JTC 1 instructs its delegation to ensure that JTC 1's ability to manage its program of work and progress its standards in a timely manner is not impaired.

**Unanimous**

**Resolution 65 – SWG-A**

JTC 1 encourages the SWG-A to continue to maintain their documents and outreach activities and support JTC 1 entities in the development of specifications that meet the identified user needs for accessibility. SWG-A should work with ISO to make accessible versions of promotional videos where possible.

**Unanimous**

**Resolution 66 – Information to JTC 1 PAS Submitters about the JTC 1 Supplement**

JTC 1 instructs its Secretariat and PAS Mentors to inform the approved JTC 1 PAS Submitters about JTC 1 plans for the JTC 1 Supplement to ISO/IEC Directives and JTC 1's intent to maintain the current JTC 1 PAS process.

**Unanimous**

**APPRECIATION RESOLUTIONS**

- a) JTC 1 expresses its appreciation to the IEC National Committee of Israel for hosting this meeting in Tel Aviv. The facilities were excellent and JTC 1 welcomed the opportunity to experience the beauty, culture and history of Israel. In particular, JTC 1 thanks the following individuals for their support:
- Doron TAMIR, President of the Israeli NC
  - Danny AKERMAN, Secretary of the Israeli NC
  - Vered OREN

**Acclamation**

- b) JTC 1 expresses its appreciation to the IEC for inviting JTC 1 to participate in the 73<sup>rd</sup> IEC General Meeting festivities. Meeting in the same location with the General Meeting has provided JTC 1 members with an excellent opportunity to meet their IEC colleagues and exchange information and ideas.

**Acclamation**

- c) JTC 1 expresses its appreciation to Mr. Ronnie Amit, IEC General Secretary, for his welcoming remarks at the beginning of the plenary as well as for his support of JTC 1 and its work.

**Acclamation**

JTC 1 expresses its appreciation to Mr. Daniel Rosenne for his warm welcoming remarks on behalf of SII.

**Acclamation**

- d) JTC 1 expresses its appreciation to all of its Officers and contributors for their efforts in support of the work of JTC 1 and for the timely preparation of the reports that reflect these activities.

**Acclamation**

- e) JTC 1 expresses its gratitude and thanks to Mr. Tatsuo Kobayashi, the retiring JTC 1/SC 2 Chairman, for his many years of participation in JTC 1 Plenary meetings and for all of the information and support he has provided to JTC 1 over these many years. We wish Mr. Kobayashi much success in his future endeavors.

**Acclamation**

- f) JTC 1 notes the announcement of the retirement of Mr Garth Mackway-Wilson from full time employment with the South African Bureau of Standards, as from January 2010. Mr. Mackway-Wilson was part of the South African delegation to JTC 1 for many years. JTC 1 expresses its appreciation for his dedicated and selfless service and valuable contributions to the work of JTC 1.

**Acclamation**

- g) JTC 1 expresses its appreciation to the Drafting Committee for its timely and efficient completion of the resolutions.

**Acclamation**

- h) JTC 1 expresses its appreciation to its new Chairman, Mrs. Karen Higginbottom, for her efficiency and graciousness in conducting this JTC 1 meeting and to its Secretary, Ms. Lisa Rajchel, for her dedicated support and guidance.

**Acclamation**

- i) JTC 1 expresses its appreciation to the JTC 1 Officer and TC 100 Officers for their efforts in organizing the joint JTC 1/TC 100 meeting in Tel Aviv.

**Acclamation**

## Annex A

Requested agenda action items that did not result in a resolution or further action

| Agenda number | Item  | Comment   |
|---------------|---|---|
| 4.2           | Review of Resolutions from the JTC 1 Plenary Meeting in Nara  | Presentation given  |
| 4.3           | Consideration of IEC's 1906 Award   | Item reviewed. No resolution but Chair requested nominations from National Bodies by November 2009 with rationale.  |
| 5.1           | Status Report from ITTF on Actions taken Regarding Inactive P-members   | ITTF reported that 22 P-members were contacted regarding their lack of participation and that the deadline for them to respond was October 31, 2009 4 P-members did reply; one changed to O-member. Those that replied will be put on notice for 1 year – others that did not reply will be switched to O-member. |
| 5.3           | Training session on PSDO  | Presentation given.   |
| 5.5           | Report of SAG-S   | Item reviewed   |
| 6.1.8         | French Contribution on N9718, REVISED JTC 1 Supplement to the ISO/IEC Directives, Part 1 and JTC 1 Standing Documents | Sent to SWG-Directives; no resolution   |
| 6.20.1        | Canadian Contribution on SG (sic)-Accessibility   | Item reviewed; no support for Canadian request  |
| 6.26.2        | IEC Activities on Smart Grid  | Presentation given  |
| 6.26.3        | Presentation on Cloud Computing   | Presentation given  |
| 10.13         | 10.13 SC 32 Request to JTC 1 Related to Web Services  | Noted; No resolution required.  |
| 10.15         | JTC1 WG 6 Recommendation for Clarification of its Scope   | No support; no resolution   |
| 10.16         | JTC1 WG 6 Recommendation for Expediting Consensus Between Meetings  | No support; no resolution   |
| 12.2          | 12.2 JTC 1/ITU-T Liaison Report   | Report given  |

|      |  |              |
|------|--|--------------|
| 12.3 | Ecma International Liaison Report                                | Report given |
| 12.4 | OASIS Liaison Report   | Report given |
| 13.1 | ISO/TMB  | Report given |
| 13.2 | IEC/SMB  | Report given |
| 13.3 | JTC 1/IEC TC 100 Liaison Officer Report                          | Report given |
| 13.4 | Report of the JTC 1 /ISO/IEC/ITU/UN-ECE MoU Management Committee | Report given |
| 13.5 | Report of the ISO Steering Committee on Image Technology         | Report given |
| 13.6 | Report of ITSIG Liaison  | Report given |
|      |  |              |