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Report on SCIT meetings in Munich February 2008 in Tokyo October 2008

Compiled by
JTC1 Liaison representatives

Prepared by Kate Grant, JTC1 liaison to ISO SCIT

SCIT meetings

- JTC1 delegation: Laura Moore, Thomas Schmelzer and Kate Grant

- Munich meeting February 2008,
  - 12 attendees,
  - Representing ISO TC42, 130,159, 171, JTC1, JTC1 SC24, JTC1 SC28, JTC1 SC29 WG1,TC100 observer and Adobe
  - Agree to continue 9 monthly scheduled 2 day meetings

- Next meeting Tokyo October (22&23) 2008

SCIT Munich meeting items of interest

- TC38, TC130, ASTM colour management information exchange in XML is a current call for interest
- Joint TC 42-TC 130-CIE WG: Extended colour encodings for digital image storage, manipulation and interchange
- JTC1 SC28 10 NWI related to colour discussed in advisory group; Office Colour Working Group proposed to be set up officially in June with Chair: Fumio Nakaya Japan
- JTC1 SC24 in implementation and testing of standards including
  - applications of JPEG 2000 profiles
  - apply AVC for motion imagery and bandwidth management as part of data fusion structures
  - sensor platforms and metadata standardisation
  - archival and dissemination of imagery and digital documents of interest also
- Detailed report on work in ISO TC42 Standards in Digital Photography, 12 WGs, 3 JWGs and 4 JWGs run by another committee. Provide all standards for digital images except for compression
- Report on ICC work, several groups relevant to colour management work eg
  - Architecture WG - developing white papers on colour management architectures
  - Automated Workflows WG - new WG to deal with automation of colour management systems that use ICC profiles (will liase with SC28)
  - Also application specific WGs
    - Graphic Arts SIG
    - Digital photography WG
    - Digital Motion picture WG

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SCIT Munich meeting
JPEG-XR overview presentation

- allows wider colour spaces to be used
- applications include
  - high end photography
  - motion image archival
  - cell phone
- specification, reference software, container and professional format, conformance document
- not backwards compatible, different compression technology (overlap transform)
- less complex to implement, allows many of the benefits of wavelet eg multiple resolutions
- default colour encoding for unsigned integer, signed integer and floating point
- using ICC profiles for rendering
- Prime target application is digital photography but also important for computer graphics etc

SCIT meeting – reports received

- [SCIT N 168](#) Report form ISO/TC 42/WG 18
- [SCIT N 167](#) Report form ISO/IEC JTC 1/SC 28
- [SCIT N 166](#) Report form ISO/TC 130
- [SCIT N 165](#) Report form ICC and IEC/TC 100/TA 2
- [SCIT N 164](#) Report form ISO/IEC JTC 1/SC 24
- [SCIT N 163](#) Report form ISO/TC 171
- [SCIT N 162](#) Report form ISO/IEC JTC 1/SC 29
- [SCIT N 161](#) Report form ISO/IEC JTC 1/SC 37
- [SCIT N 160](#) Report form IPAC
- [SCIT N 159](#) Report from ISO/IEC JTC 1
- [SCIT N 158](#) JTC 1 SWARM group agenda

SCIT Munich meeting resolutions

- **Resolution 1-2008: Meeting schedule**
- ISO SCIT plans to meet on the following schedule:
    - Meeting: October 22nd and 23rd 2008, Tokyo
    - Meeting: May/July 2009, Geneva
- **Resolution 2-2008: Value of SCIT**
- ISO SCIT observes that the need for the SCIT is greater now than ever before. It is more likely that IEC and/or ISO SC/TCs and other imaging standards bodies will have overlapping or related technical needs that are best resolved by examining existing expertise rather than potentially re-inventing technology solutions. The SCIT is a valuable resource in this regard.

  Further, a key part of the value of the SCIT is the informal liaisons and relationships that are built up over time among the various participants. Thus, face-to-face meetings are a critical component of SCIT activity that can be supplemented by e-mail, teleconferences, and the like; but that are a foundation of SCIT activity. Thus, the SCIT's current consensus is that a 9 month meeting cycle is the best balance between having something new to say and maintaining continuity and relationship building.

- **Resolution 3-2008: Thanks to host**
- ISO SCIT sends its appreciation and thanks to FOGRA and to Claas Bickeböller for hosting our meeting in Munich, and for the provision of excellent refreshments and lunch.

SCIT Tokyo meeting
23 and 24th October 2008

- 9 attendees representing ISO TC42, 130, 159, 171, JTC1, JTC1 SC28, and Adobe and guests from JIIMA and ISO TC215

- Report received from JTC1 SC24 and by telecon from CIE representative

- Discussion on access to SCIT documents, ISO directives do not provide specific guidance (unlike JTC1 directives) and it was agreed that
  - agenda and meeting summary would be open
  - minutes would be restricted to SCIT members
  - meeting documents (reports from members and guests), articles, resolutions etc would be accessible by anyone with an ISO password for the ISO livelink site (new ISO portal).

Activity reports from

- *JTC1 SC24 and other geographical information systems related work*
- *JTC1 SC28*
- *JTC1 (inc SC17, SC29, SC37 and SGSN)*
- *ISO TC130*
- *ISO TC159*
- *ISO TC171*
- *ISO TC42*
- *CIE (International Commission on Illumination or Commission Internationale de l´Eclairage)*
- *Adobe*
- *JIIMA (Japan Image & Information Management Association)*

SCIT Tokyo meeting items of interest – SC24

- Geospatial Intelligence Standard, an XML implementation profile for TIFF and GEOTIFF defining the minimum set of format options, features, and data elements necessary to promote interoperability for the exchange of GEOTIFF-formatted files within the National System for Geospatial-Intelligence (NSG) provided to SCIT for information

- GeoPDF extension which adds a coordinate transformation matrix and other metadata to allow transformation of PDF coordinates to a projected Cartesian coordinate system will be submitted to TC171 SC2 WG8 for consideration to be included in 32000.

- Working with Web3D – H-Anim and X3D
  - Developing relationship with X3DEarth

- Working with the Digital Geospatial Information Working Group (DGIWG) on expansion on ISO/IEC 18026 Spatial Reference Model for Datum Transformations
  - Anticipate work that can be brought to ISO TC211

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SCIT Tokyo meeting
items of interest – TC130

- 2 new parts of ISO 15930
  - 15930-7:2008 PDF/X-4 and -4P exchange printing information with external reference PDF.1
  - 15930-8 2008 PDF/X-5 exchange printing information with external reference PDF.1.6
- Discussion of issues relating to OBAs (optical brightening agents),
  - their effect changes as paper ages (and there are chemical reactions with various inks etc).
  - May need to consider to what extent archiving requirements touch on whiteness of paper and appearance of documents (eg in TC171) *may be important for SC17 and SC37*
- Update of work on
  - ISO 12640 series (Graphic Technology prepress digital data exchange)
  - ISO 28178 Graphic Technology exchange format for colour and process control data using XML or ASCII
  - ISO 17972 Graphic Technology Colour data exchange using CxF.
  - variable data exchange (WG2 task force 3) and non-content data exchange
- All ICC specifications are published through TC130. Colour data registries of colour profiles and colour characterisation data on ICC website (www.color.org)

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SCIT Tokyo meeting
items of interest – TC159/SC4

- WG2 series of specifications on visual display requirements
  - ISO 9241-300 introduction to electronic visual display requirements
  - ISO 9241-302 terminology
  - ISO 9241-303 requirements (50 generic)
  - ISO 9241-304 user performance test methods
  - ISO 9241-305 optical lab test methods
  - ISO 9241-306 field assessment methods
  - ISO 9241-307 analysis and compliance methods
- 8 major areas of requirements: viewing conditions, luminance, special physical environments (outdoors) visual artefacts, legibility and readability, legibility of information coding, legibility of graphics, fidelity of the displayed images
- SG Image Safety developing standards to reduce undesirable biomedical effects in sensitive people
  - PSS photosensitive seizures,
  - VIMS visual induced motion sickness and
  - VFSI visual fatigue through stereoscopic images
- New developments with autostereoscopic displays may introduce accessibility issue,

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SCIT Tokyo meeting items of interest – TC171

- Key projects:
  - ISO 23868 validation data stored on optical media
  - ISO/DTR 15801 document management; revision of a published document that looked at scanned images and how to demonstrate authenticity over period of time, the new work extends the scope to any type of electronic documents
  - ISO 19005-2 PDF/A
  - ISO 32000-1 and 32000-2 PDF part 1; PDF 1.7
  - ISO 22938 document management content data interchange format.
  - XML based schema to exchange electronic images/content
  - ISO 29861 quality control for scanning office documents in colour
  - ISO CD11864 document management creation of metadata crosswalk: a new standard in JWG with TC46SC11, led by Church of Latter Day Saints providing guidance on how to create relevant metadata
  - ISO 24517-2 PDF/E want tighter integration of 3D and to include PRC a 3D file format (from Adobe) specification (work with ISO TC184)

- Important future work
  - PDF universal access, to support more accessibility aspects
  - PDF Healthcare, best practice for health industry, secure envelope for e-health information records and work with continuity care records

SCIT Tokyo meeting
items of interest – TC42 & ADOBE reports

- TC42
  - DNG (from ADOBE) was submitted as technology contribution to TIFF-EP in response to open call
  - Current issue relating to SC29 WG1 and whether can use JPEG-XR with file formats used by camera industry (and in TC42). WG1 investigating issues related to camera raw support and JPEG-XR.
  - TC42 mostly work in interoperability standards, and faced issues with metrics issues which may reveal too much information about sensors. In digital systems ISO speed considered a metric where before it was an interoperability aspect. *JTC1 SGSN may face similar issues.*

- Adobe
  - Working with Metadata working group which has guidelines on how to handle persistent metadata especially related to digital cameras see http://www.metadataworkinggroup.org/
  - Relevance of DNG specification to TIFF-EP etc

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SCIT Tokyo meeting
Open Session

- ***attended by guests from Adobe and JIIMA:***
- Presentation by SCIT Chair:
  - SCIT (established 2000) allows sharing of information to manage coordination activities better and provides a forum for information exchange in the area of image technology
  - SCIT does not assign or manage image-related projects.
  - SCIT encourages joint activities because people not aware of different activities.
  - Meetings held across various continents so all participants can attend some more easily.
- General discussion followed on the role and potential of SCIT activities with SCIT members and visitors participating.
- ***Followed by reception provided by Adobe Systems Ltd with other guests from Japanese industry***

SCIT Tokyo meeting resolutions

- **Resolution 1:**
  All SCIT members should forward any reports of the meeting which they prepare for their respective organisations to the Secretary and these reports will be compiled to make a public document which will be a meeting summary. These reports should be sent to the Secretary within 60 days of the SCIT meeting so that relevant information can be included in the meeting report. The content and format of the meeting summary will be totally at the secretary's discretion.

- **Resolution 2:**
  SCIT members decided that henceforth the agenda and meeting summary documents would be public documents with unrestricted access. Related meeting documents will be open to any people with a password giving them access to documents through the ISO portal. Access to the full minutes will be restricted to SCIT members.

- **Resolution 3:**
  SCIT members are encouraged to submit articles on aspects of technology relevant to image technology which will be made publicly available through the "articles" section (unrestricted access). These can be in any language but an English title or abstract should be included on the cover page. These articles can also be brief inputs from SCIT members with pointers to interesting articles available on the web relevant to specific topics. The cover page will give details of contributor, contact details and submission dates.

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SCIT Tokyo meeting resolutions

- **Resolution 4:**

  SCIT members recognise that many concepts of TIFF are included in JPEG-XR and request that appropriate referencing is included in the specification. SCIT notes that other TCs that have made use of parts of the TIFF specification in their standards have obtained copyright releases from Adobe Systems Inc.

- **Resolution 5:**

  SCIT successfully held a short open meeting as part of the first day of the SCIT meeting with a number of invited guests representing Japanese industry interests. SCIT recommends that a similar open session is included in future meetings.

- **Resolution 6:**

  SCIT agreed their future meeting schedule would be as follows:
    - **Geneva June 23 and 24 2009 at the new ISO building**
    - **US early spring 2010**

- **3 appreciation resolutions**

  Adobe Systems Ltd for meeting facilities and arranging the reception
  JIIMA for supporting the meeting and presentation on activities

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