

**ISO/TC 130/WG 2 (Prepress Data Exchange)
41st Meeting
14-15 October, 2010
Thursday 09:00 – 18:00 / Friday 09:00 – 13:00
Sao Paulo, Brazil**

1. Call to Order - Welcome - Introductions - Roll Call of Experts – Announcements

The meeting was called to order at 09:00 by David McDowell, Convenor. He welcomed everyone and thanked Bruno Mortaro and ABNT for arranging for and hosting the meeting.

The following technical experts and observers were in attendance and introduced themselves:

David McDowell, convener	NPES	USA
Kip Smythe, administrator	NPES	USA
Debbie Orf, secretary	NPES	USA
Allessandro Beltrami	AARB	Italy
Günter Bestmann	Heidelberg	Germany
Frank Biederich	Adobe Systems, Inc.	Germany
Laurel Brunner	Digital Dots Ltd.	UK
Cyril Checroun	Cyllab/Protelio	France
Ray Cheydleur	X-Rite	USA
Robert Chung	RIT	USA
Bruno Cialone	ABTG	Brazil
Diogo Alves de Sousa	Tecnimprensa	Portugal
Helena Eian	Accel Graphic System	Malaysia
Phil Green	LCC	UK
Bob Hallam	Quad Graphics	USA
Kenji Imura	Konica Minolta	Japan
Dov Isaacs	Adobe Systems, Inc.	USA
Akihiro Ito	Fuji Xerox	Japan
Song Kyung-Cheol	Pukyung National University	Korea
Andy Kraushaar	FOGRA	Germany
Alan Lilich	Adobe Systems, In.	USA
Paul Lindström	Malmö University	Sweden
Maoxue Liu	BIGC	China
Noriaki Matsubara	Konica Minolta	Japan
Makoto Matsuki	JPMA	Japan
Karl Meinecke	bvdm	Germany
Bruno Mortaro	ABTG	Brazil
Christoph Oeters	SOFHA GmbH	Germany
Yue Qiao	Ricoh InfoPrint Solutions	USA
Craig Revie	Fujifilm	UK
Danny Rich	Sun Chemical	USA
Leonard Rosenthol	Adobe Systems, Inc.	USA
Natalie Ross	Ricoh InfoPrint Solutions	USA
Sei Sanada	Toppan	Japan
Steve Smiley	Vertis Communications	USA
Roland Thees	WAN-IFRA	Germany
Hitoshi Urabe	Fujifilm	Japan
Larry Warter	Fujifilm	USA
Erwin Widmer	Ugra	Switzerland
Karin Winkelmann	DIN	Germany

2. Review and approve agenda (N 1392)

The committee reviewed the agenda, which had been distributed prior to the meeting and made the following changes:

- Added as 10.1: Proposed RGB workflow standard (WG2N1389, WG2N1393)
- Added between Items 13 and 14: Review of WG2 resolutions for Plenary

The agenda was approved as amended

3. Identification of new documents

The WG2 documents listed below were identified as having been distributed since the last meeting (including documents provided at this meeting). Documents not yet distributed will be posted on the WG2 portion of ISO Livelink.

TC130/WG2 N 1385	Letter from Adobe regarding standardization of XMP
TC130/WG2 N 1386	Email from DQM regarding Adobe letter re: standardization of XMP
TC130/WG2 N 1387	Meeting notice of October 2010 TC130 WGs and Plenary in Sao Paulo, Brazil
TC130/WG2 N 1388	Email from USTAG Chair to WG2 regarding XMP Specification
TC130/WG2 N 1389	RGB Workflow NWIP, Urabe
TC130/WG2 N 1390	Email to WG2 requesting comments on ISO 12640-5 for discussion in Sao Paulo
TC130/WG2 N 1391	Status Report on WG2 Projects, April 2010
TC130/WG2 N 1392	Draft Agenda for October 2010 meeting in Sao Paulo
TC130/WG2 N 1393	Letter from DQM requesting WG2 review N1389 (RGB Workflow) for discussion in Sao Paulo
TC130/WG2 N 1394	JNB report #4 on RGB-workflow NWIP draft
TC130/WG2 N 1395	Secretariats Report to the 24th Plenary in Sao Paulo 2010
TC130/WG2 N 1396	Response to AI WG2 10-3
TC130/WG2 N 1397	Draft WG2/TF4 Agenda for Sao Paulo
TC130/WG2 N 1398	ISO/WD 17972-1
TC130/WG2 N 1399	ISO/WD 17972-2
TC130/WG2 N 1400	ISO/WD 17972-3
TC130/WG2 N 1401	Biederich Presentation on XMP in Sao Paulo
TC130/WG2 N 1402	WG2 Report to the Plenary
TC130/WG2 N 1403	Email of resolution to Tim Donahue

4. Review and approve minutes of April 2010 meeting

The committee reviewed the minutes of the 21-22 April 2010 meeting (N 1383) held in St. Gallen, Switzerland. There being no corrections, the minutes were approved as distributed.

5. Review status of action items from April 2010 meeting (N 1384)

#	Action Item	Status
09-10	Isaacs, Donahue and Drümmer will refine Brunner article to be placed in the ISO Bulletin	Open, in process
09-15	Revie/Smiley will prepare custom resource containers for part x of ISO 17972, for spot color data.	Open, in progress waiting for format to be used for delivery.
09-20	McDowell, Revie, Leutkens, Warter, Matsuki and Urabe will collaborate to write a description of the intent and to make clear the terms and concepts involved in integrating digital data from cameras into the printing production workflow. This is dependent upon the completion of the Japanese National Body study on RGB workflow.	Open, Urabe will report current status of RGB workflow and proposed WD (N1389) in this meeting.
10-01	Cheydleur and Rosenthol to discuss the relationship of the core schema document to the needs of the ISO schema documents ISO 17972-1 and report back to WG2.	Completed. A written report will be provided.
10-02	Cheydleur will prepare CD Ballots of ISO 17972-1 and ISO 17972-2 to be distributed by the end of June 30, 2010.	Completed. Documents were provided at this meeting and will be updated based on discussion.
10-03	Cheydleur will investigate possibility of creating an area on X-Rite website where testing tools can be made available for evaluation of conformance to ISO 17972-1 and ISO 17972-2.	Completed (N 1396). Website not available but tools have been distributed.
10-04	McDowell, Rosenthol, Biederich will provide written proposal for combining the current XMP documents into an ISO standard along with sample documents (with caveats relating to technical content) to Pelapat by next week for ISO/CS to study and provide answer on how to proceed.	Completed.
10-05	Urabe will prepare draft RGB workflow guideline and a draft NWIP and give to Orf by August for circulation before next meeting in Sao Paulo	Completed. (N 1389)
10-06	Drümmer to provide a summary of registry requirements of the proposed ECI registry and possible cooperative arrangements with the ICC.	Open. In progress (In discussion with the ICC, the decision has been made that both will cooperate/point to each other).

In discussing Action Item 10-06 it was explained that summarizing the features of the ECI registry will clarify differences between the two registries (ECI and ICC) and will help to ensure that there is no difference in the characterization data and profiles which might confuse users. It was noted that pointers to the ICC registry that are currently in PDF files will remain. The connection between the two registries will also help to ensure that items in the ECI registry can be moved into or linked to the ICC registry so that existing URLs in documents will not change.

It was pointed out that the two registries serve different purposes in that the ECI registry is focused on machine access to the registry whereas the ICC registry is focused on human accessibility. It was noted that the ICC registry will remain the critical pointer for the ISO 15930 standards.

6. Status of documents and pending projects (N 1391)

6a ISO 12640-3 was reaffirmed by ballot. It was noted that the Result of Voting included one negative vote. However, as there were no comments submitted the vote is nullified resulting in a universal recommendation to reaffirm. The following resolution was approved and will be forwarded to the Plenary.

Resolution: Upon recommendation of WG2, ISO/TC130 resolves to reaffirm ISO 12640-3. ISO/TC130 requests its secretariat to undertake the steps necessary to implement this resolution.

6b ISO 12640-4 *Graphic technology — Prepress digital data exchange — Part 4: Wide gamut display-referred standard colour image data (AdobeRGB(1998)/SCID)*

The DIS ballot of this document was approved with no negative votes. All comments were resolved by E-mail discussion and the document is in preparation for publication at ISO Central Secretariat. There have been delays at ISOCS associated with IP issues regarding the use of Adobe RGB in the title and image releases. Urabe identified an issue related to an error in image N5 that can be corrected before publication.

Action Item 10-07: McDowell and Urabe will resolve the issue related to an error in image N5 in ISO 12640-4 before publication.

6c ISO 12640-5 *Graphic technology — Prepress digital data exchange — Part 5: Scene-referred standard colour image data (RIMM/SCID)*

This document is in CD ballot with a close date of November 11, 2010.

6d ISO 15930-7 *Graphic technology — Prepress digital data exchange using PDF — Part 7: Complete exchange of printing data (PDF/X-4) and partial exchange of printing data with external profile reference (PDF/X-4p) using PDF 1.6*

This document was published July 16, 2010.

6e ISO 15930-8 *Graphic technology — Prepress digital data exchange using PDF — Part 8: Partial exchange of printing data using PDF 1.6 (PDF/X-5)*

This document was published July 16, 2010.

6f ISO 17972-1, *Graphic technology — Colour data exchange format (CxFx) — Part 1: Relationship to CxF3*

A working draft of this document was circulated for discussion (N 1375) prior to the St. Gallen meeting.

6g ISO 17972-2 *Graphic technology – Colour data exchange format (CxFx) – Part 2: Scanner target data*

A working draft of this document was circulated for discussion (N 1376) prior to the St. Gallen meeting.

7. Report on status of work of WG2 Task Forces and JVGs

7a TF 2 - PDF/X

Isaacs reported that the TC130 WG2/TF2 meeting was concluded in one day. He noted that typos, capitalization and bolding errors have been found in the PDF/X-4 2010 document. As these errors were contained in programming language that was case sensitive a resolution for a corrigendum will be presented at the Plenary.

He reported that Rosenthal presented a report on current developments in other PDF standards, PDF (ISO 32000-2), PDF/A and PDF/UA.

Also discussed was the possibility of additions to PDF/X standards and new items (requirements) to be added to ISO 32000-2. These included spot colors and support for CxF as well as issues related to packaging. He noted that a presentation had been given to the task force regarding proposals that were presented at the last Ghent PDF Workgroup meeting in New York.

He reported that Smiley will provide justification for features that he feels should be added to ISO 32000-2 and subsequently be incorporated into a PDF/X standard. WG2/TF2 plans to have monthly conference calls where the committee will discuss individual topics that were identified. 1½ days will be requested for WG2TF2 in Berlin.

7b ISO 15930-5 *Graphic technology - Prepress digital data exchange using PDF - Part 5: Partial exchange of printing data using PDF 1.4 (PDF/X-2)*

There was a discussion of an ongoing issue from the periodic review of this document. It was recommended that ISO 15930-5 be withdrawn as there were no known implementations. In an earlier meeting Matsuki had reported that there was a company in Japan that was using this software. He took an action item to investigate with the result that it was determined that ISO 15930-8 would satisfy their requirements. They have now identified that they are satisfied they do not need 15930-5. It was agreed that 15930-5 should be withdrawn. The following resolution was approved and will be forwarded to the Plenary.

Resolution: Because there are no known implementations of ISO 15930-5 (confirmed by a survey of ISO/TC 130 National Bodies), upon recommendation of WG2, ISO/TC130 resolves to withdraw ISO 15930-5. ISO/TC130 requests its secretariat to undertake the steps necessary to implement this resolution.

7c TF 3 PDF/VT

ISO 16612-2 *Graphic technology — Variable data exchange — Part 2: Using PDF/X-4 and PDF/X-5 (PDF/VT-1 and PDF/VT-2)* was published July 30, 2010.

It was noted that WG2/TF3 and their chair, Tim Donohue, deserve a vote of thanks and appreciation. They did a marvelous job and worked very hard on this document and it is anticipated that it will be in great demand in the marketplace. This standard is seen as a major contribution to the growth of digital printing. The following resolution was approved and will be forwarded to the Plenary.

Resolution: ISO/TC130 wishes to note the recent publication of ISO 16612-2, *Graphic technology — Variable data exchange — Part 2: Using PDF/X-4 and PDF/X-5 (PDF/VT-1 and PDF/VT-2)* and extend its appreciation to the Convenor Tim Donahue and the members of WG2/TF3 for a difficult job well done.

Action Item 10-08: McDowell will send a formal letter of thanks to Tim Donohue and WG2/TF3 for their hard work on the development of PDF/VT, ISO 16612-2.

7d JWG 7 – ICC Specifications

The DIS ballot of **ISO 15076-1** *Image technology colour management — Architecture, profile format and data structure — Part 1: Based on ICC.1:2010* was approved by both the ICC and TC130 with no negative votes. However, during final preparation for publication it was discovered that Apple no longer supported the PICT format and they requested that all references to it be removed from the ICC Specification. This included both a number of incidental references to it in the body of the document as well as all of Clause B.2 (Embedding ICC profiles in PICT files). In the course of reviewing the impact of removing Clause B.2 it was pointed out that the rest of Annex B was at best informative from a historical perspective, not normative as it is currently designated. The removal of Clause B.2 and the change of Annex B from normative to informative necessitated an FDIS ballot which will close October 18, 2010. No comments have been received to date from TC130 and no comments are anticipated from the ICC.

7e JWG 9 – ISO/ 12640-5 (Scene referred images)

Urabe reported that he has a draft of ISO 12640-5 ready to discuss and possibly submit for CD ballot. More detailed information will be discussed at the JWG 9 meeting.

8. XMP Specification and TF4

In the St. Gallen meeting it was agreed that a WG2 Task Force (TF4) would be created to address the XMP work within TC 130.

Biederich reported that XMP Part 1 has been submitted to ISO by Adobe and is being sponsored by DIN. The document, ISO 16684-1, *Graphics technology — Extensible metadata platform (XMP) specification — Part 1: Data model, serialization and core properties*, is currently out for a 5 month Fast Track DIS ballot which closes 4 March 2010. It was explained that a document in Fast Track does not follow the New Work Item Procedure, and goes directly to DIS ballot.

It was noted that there has been some confusion regarding the different Parts of the Adobe document titled, “XMP Specification Part 1, Data Model, Serialization, and Core Properties” and how those Parts will relate to the ISO document. Biederich explained that the separate Parts of the Adobe document are not related to the ISO document Parts as yet and that there should be no assumptions that other XMP parts will result in corresponding ISO Parts.

A concern was noted that the markets feel it has taken Adobe too long to go public with XMP. Each market segment was making different assumptions about when it would become public. Biederich noted that XMP is now being widely used in the marketplace and it is being used by Adobe in all of their products. Also noted was that XMP was first released with Acrobat 5 in January 2001 but it was not until the mid-2000s that Adobe felt comfortable with the maturity of XMP and felt satisfied that it could become a standard. Since then it has been a matter of finding the right standards organization to develop the standard.

Comments will be reviewed at the spring 2011 TC130 meeting in Berlin and assuming all comments are editorial in nature the document will go directly to publication. If there are technical concerns with the document, other options will be considered at that time.

It was noted that the agreement between ISO and Adobe states "Once the DIS is approved, the approved document (with Adobe permission) would be put in the ISO format and presentation (standard ISO boilerplate added) by TC130 WG2 before transmittal to ISOCS for publication."

It was suggested that application level XMP standardization, based on ISO 16684-1, should be initiated in the relevant standards committees for vertical markets. The graphic arts applications of XMP will be developed in a separate standard by WG2/TF4. TC42 (Photography) has already requested a JWG with TC130 to develop the photographic applications of XMP.

WG2, with input from WG2/TF2, drafted the following three resolutions re XMP for submission at the plenary

ISO/TC130 resolves to assign responsibility for ISO 16684-1 to WG2.

ISO/TC130 approves the formation of WG2/TF4 which will have the following scope:

- to support the review of comments on ISO 16684-1 and, when approved, complete the preparation of the document for ISO publication,
- to provide ongoing maintenance, support and future development for ISO 16684,
- to identify the XMP vocabularies and file format embedding rules for the graphic arts industry, and
- to develop the necessary ISO standard(s) to document the identified vocabularies and rules.

ISO/TC130 resolves to accept the invitation of ISO/TC42 to join with TC42 in a TC42-led JWG for the development of an International Standard (ISO 12234-3) describing the photographic applications of XMP based on ISO 16684-1.

WG2/TF4 requires one day in Berlin to process the results of the DIS ballot of ISO 16684-1 and to foster the collection of ideas on future and related work. McDowell will send out invitation letters for persons interested in WG2/TF4.

9. ISO 17972 - Colour data encoding

Cheydleur reported that ISO 17972-1 (N1398), ISO 17972-2 (N 1399) and ISO 17972-3 (N1400) have been distributed. He stated that X-rite is no longer claiming intellectual property rights, removing barriers that had previously existed.

There was a previous concern noted that there should be a way for a standard XML parser to accomplish validation without violating any rules laid out in the standard or reference CxF document. It was noted that in ISO 17972-1 that is still true, because there is direct mapping into the CxF core making it possible to perform strict validation with XML without CustomResources.

In ISO 17972-2 a second paragraph was added in Annex B which allows modification to the core schema with the additional elements contained in the CustomResource which allows for validation with standard XML parsers. In this case the modified schema as well as the original CustomResource schema will be accessible for verification. This modification ensures that when using a dedicated CxF parser the validation will not fail. It was noted that the addition of this paragraph closes Action Item 10-01.

There was a discussion regarding validation through information. The way that CxF is currently defined is through an informal name meaning that standard validation programs would not allow custom validation through the core resources. It was noted that a new schema is created using the elements in the file and that the standard XML schema language would not be sufficient. There was a discussion related to a newer schema language invented specifically to address validation issues.

Action Item 10-09: Rosenthol and Revie will develop a "RelaxNG" schema to demonstrate real world validation of a set of Custom CxF resources to further ISO 17972-2.

In going through the document, it was noted that other than the intellectual properties section, the introduction has not changed.

The Scope was discussed and updated. It was noted that the X-Rite CxF3 document will be an annex of ISO 17972-1 and, when published, will be a fixed part of the standard. Therefore a normative reference is not needed.

There was a discussion on the use of CxF3 within other industries. Some felt that the words "within ISO" should be removed from the scope because it implies a restriction that does not exist. The concern is that if not restricted other communities may request additions and changes. Some felt that feedback from other industries would be a good thing that may alert the committee to something that should be changed. It was noted that this is a standard that is used for the exchange of data for color control and process information and that its use should not be limited outside of the graphic arts community. It was noted that CxF is already being used in the textile industry.

There was a discussion comparing the graphic arts implementation of CxF3 as CxFx and the graphic arts implementation of PDF as PDF/X. It was agreed that to make clearer to the user the title should be changed to: *Graphic technology – Colour data exchange format (CxF/X) – Part 1: Relationship to CxF*. This change will be made in all parts before it is sent out for CD ballot.

In looking at ISO 17972-2, it was suggested that for CustomResources a description of all required and optional fields should be included. The counter argument was that for mapping of the original elements as defined in ISO 12641, this is not needed as these are defined in the originating document. After discussion, it was agreed to take the required keyword descriptions from ISO 12641 and copy them directly into the CxF document.

Cheydleur stated he will prepare the CD drafts based on input regarding changing the name, the scope and various inconsistencies on wording for targeting, as well as adding in the definition from the original documents. If there are constraints in the original document for the values or it appears there are options available in CxF that are incompatible he will point out what the CxF values should be.

Action Item 10-10: Cheydleur will update part 1 of ISO 17972 with the new title and other items discussed here and parts 2 and 3 of ISO 17972 with the new title as well as the definitions from the originating documents.

It was reported that Heidelberg is currently using ISO 28178 data but the ASCII part have defined additional keywords.

Action Item 10-11: Bestmann will provide a report from Heidelberg identifying keywords related to process control to be added into a new part of ISO 17972.

Action Item 10-12: Kraushaar, with the German delegation, will identify additional areas of concern they feel should be added to ISO 17972.

Action Item 10-13: Revie will draft a prototype for ISO 17972 Part 4 related to the exchange of spot color.

It was suggested that information about plate curve adjustments should be added to the document.

10. Review of possible new work

10a Proposed RGB workflow standard (WG2N1389, WG2N1393, WG2N1394)

Revie and Urabe provided some background on the preparation of images leading into the presentation and discussion of N 1394 “Key concepts for RGB workflow”.

A key result of these discussions was an understanding, by most of the participants, of the goals of this activity. This is best described by the proposed name change from *Graphic technology — Prepress data exchange — RGB workflow* to *Graphic technology — Preparation and visualization of RGB images to be used in RGB-based graphic arts workflows*. The misconception some had was that this work was focused on RGB workflow rather than a method for consistent preparation and visualization of RGB images used as input to the RGB workflow.

It was noted that this is not an attempt to provide a work-around for an existing problem, but a way optimize the preparation of images for inclusion in a mixed workflow. There is currently no predictable method of keeping the highlight and shadow points of an image consistent with the

photographer's original choice through the reproduction chain. The basic idea is to have a modern workflow allowing the photographer and the printer to communicate clearly using the basic principles in the current workflow which still apply, but are not very well defined.

A wide gamut ink-jet printer could be used with special processing to create a hard copy print of the image called the reference RGB print. This could take the place of the transparency in the traditional workflow. The important thing to understand is that the original RGB image remains the master image. It was noted that the requirements for such a reference print will be defined in the standard. The agreed upon description of this work and probable title of an initial standard is "preparation and visualization of RGB images to be used in RGB-based graphic arts workflows".

Action Item 10-14: Urabe will provide a working draft of the proposed draft standard by March 1, 2011 for distribution to the committee.

11. Other

There was a suggestion that it would be helpful to be able to review informative material online before the official TC130 meeting. This would allow those with presentations to give experts an advance look, thereby reducing presentation time at the official meeting. For example, for this particular meeting viewing and discussion of the RGB workflow presentation beforehand would have been beneficial. This type of presentation should allow for a question/answer period at the end. It was agreed that these pre-meetings should be limited to one subject at a time.

The committee agreed that it would be useful try remote meetings with the stipulation of single topics and a limited time frame (2 hours max.). The following three time options were suggested as workable from an international perspective (each disadvantages one geographic area and it would probably wise to cycle through them).

	US West Coast	US East Coast	European	China	Japan
Option 1	6 am	9 am	3 pm	9 pm	10 pm
Option 2	9 pm	12 am	6 am	12 pm	1 pm
Option 3	3 pm	6 pm	12 am	6 am	7 am

McDowell noted that he will be alert to material that could be handled during a teleconference and will choose one of the time options that is best for committee members who indicate an interest in participating.

There was a discussion on the possibility of having the experts participating in meetings that deal with high-end technical issues provide a summary for those without the technical knowledge. It was noted that the difficulty in summarizing the key elements of a meeting in a short paragraph is that invariably the focus is on those things critical to the personal perspective of the author. It was suggested that the minutes should be used as a summary of the meeting. When having a WG2 teleconference meeting minutes will be distributed and should provide the necessary summary.

12. Reports on work in other TCs impacting TC 130

12a TC171/SC2/WG5 - ISO/DIS 19005-2 (PDF/A-2)

Rosenthal reported that ISO 19005-2 is at DIS-2 with the ballot closing on October 18. TC171 will meet in December in Ottawa to resolve comments, and plan to ratify the standard.

12b TC171/SC2/WG5 – ISO/NWI/CD 19005-3 (PDF/A-3)

ISO 19005-3 is currently in NWI/CD ballot which closes November 5 and will be discussed at the Ottawa meeting. The one difference between PDF/A-3 and PDF/A-2 is the ability to embed any file type into a PDF/A compliant file. Currently in parts 1 and 2 only PDF/A compliant files may be embedded. This change will not break compatibility with PDF/X.

It was noted that TC130 may want to monitor the work of TC171/SC3/WG7, the PDF/E committee. TC171/SC3/WG7 is currently working on ISO/NWI/CD 24517 which is developing an archival version of engineering focused documents meeting the needs of the engineering community. It was suggested that this is something WG3 should be made aware of as work on digital printing progresses.

When asked the difference between PDF/A part 1 and part 2, Rosenthal noted that the key change is that Part 2 is based on ISO 32000 rather than being built on PDF 1.4 from Adobe. A new conformance level was introduced in PDF/A-3 as PDF/U (Unicode). Also noted is that a single file is compatible with any version of PDF and there is no need to migrate or change workflows. An important note is that all digitally signed documents MUST comply with PAdES (PDF Advanced Electronic Signatures).

Additionally, Rosenthal reported that the TC171 ISO 32000 committee has established an ad hoc committee with experts from all PDF subsets (including Revie representing PDF/X and TC130 WG2/TF2). Additionally, Rosenthal, Bailey, and Drümmer will be members of this committee. The purpose of the committee will be to study the possibility of bringing some or all of the existing subset standards back under ISO 32000 proper. It was explained that the goal of the committee is not to make PDF/X go away but to simplify the maintenance and compatibility issues. It is hoped to bring all requirements into ISO 32000 as some form of core requirement or specifically determined requirement and reduce PDF/X to very specific needs. This will allow PDF/X to be a much shorter document focusing on the few changes from core standard.

12c TC 42 JWG 20 – Digital Cameras

Urabe reported that two weeks ago a meeting of TC 42/WG18, WG20, WG22, WG23 was held in Germany. He noted that Holm is now working for the Academy Awards Association and in that role has developed a still camera processing module. Using this information he will write a document that will be a Technical Report.

He commented that when dealing with camera manufacturers, each vendor wants their own specific format, and some manufacturers have more than one format of raw image data. It was noted that this can be a tough issue. Only way he envisions that this would change is that if large publications took a position that if a manufacturer would not change to something standard they would stop buying the cameras. It was argued that some manufacturers are changing to TIFF/EP.

12d TC 42 JWG 21 – Densitometry

This committee is inactive.

12e TC 42 JWG 22 – Color Management Gamut metadata

Urabe reported ICC TC 100 is currently discussing 61966 part 12 which is color gamut computation for high end user color information management.

12f TC 42 JWG 23 – Extended color encoding

McDowell reported ISO DTS 22028-4 (eciRGB (2008)) ECI/RGB was approved and will be going to publication.

12g TC 42 JWG 24 – Revision of ISO 3664, Viewing conditions

This committee is inactive.

12h TC 42 WG18 – Electronic still picture imaging

It was noted that the most important aspect in the development of a standard for photographic imaging using XMP is that it be technically consistent with the entire family of WG18 digital photography standards. WG18 intends to develop the standard based on the TC130-administered general XMP standard and invites TC130 to participate.

After a discussion on the ramifications of copyright issues it was explained that XMP ISO 16684 (Adobe XMP Specification – Part 1) will be owned by ISO TC130 including the data model and serialization, basic XMP schemas, title and copyright. ISO TC42 will work with photography including, image metadata and file handling (e.g. Photoshop, and Exif schema, JPEG, TIFF file handler, etc.) TC171 will handle document issues including document specific topics such as PDF Extension schemas, XMP schema and file handler, etc. In future development TC130 will handle graphic arts issues and TC32 will work with any video issues.

In discussing how to ensure that all these groups work with the core document it was felt that the joint working group format will sufficiently define these relationships and how they work with the core document.

12i Report on status of CIE work impacting TC130/WG2

McDowell reported that there is not currently a CIE liaison with TC130. He noted that one area that affects WG2 is CIE TC1-57 which is working on standardizing a number of color issues. McDowell will look into the possibility of having the document distributed to WG2, WG3 and WG4 for feedback in formulating comments for CIE TC1.

13. Liaison Reports (written reports invited)

13a International Color Consortium (ICC)

McDowell reported that the ICC is beginning preliminary work on ICC.2 which will look at spectral data.

13b European Colour Initiative (ECI) Drümmer

Rosenthol reported that ECI is working on a new alternative test suite being developed by NCI which is currently in “beta test”. It was determined that no input is required from WG2 at this time.

13c Ifra

No report

13d Ecma

No report

14. National Body Activities (reports invited)

No reports

15. Review of WG2 resolutions for Plenary

WG 2 approved the following resolutions to be forwarded to the Plenary.

- a) Upon recommendation of WG2, ISO/TC130 resolves to reaffirm ISO 12640-3.
- b) Because there are no known implementations of ISO 15930-5 (confirmed by a survey of ISO/TC 130 National Bodies), upon recommendation of WG2, ISO/TC130 resolves to withdraw ISO 15930-5.
- c) ISO/TC130 requests its Secretariat to forward to ISO a Corrigendum to ISO 15930-8 to correct 4 capitalization and spelling errors (in XMP keys and elements) based on a draft document provided by Dave McDowell.
- d) ISO/TC130 wishes to note the recent publication of ISO 16612-2 *Graphic technology - Variable data exchange -- Part 2: Using PDF/X-4 and PDF/X-5 (PDF/VT-1 and PDF/VT-2)* and extend its appreciation to the Convenor, Tim Donahue, and the members of TC130 WG2/TF3 for a difficult job well done.
- e) ISO/TC130 resolves to start work in WG 2, at Stage 0, to develop an International Standard for Preparation and visualization of RGB images to be used in RGB-based graphic arts workflows.
- f) ISO/TC130 resolves to assign responsibility for ISO 16684-1 to WG2.
- g) ISO/TC130 approves the formation of WG2/TF4 which will have the following scope:
 - to support the review of comments on ISO 16684-1 and, when approved, complete the preparation of the document for ISO publication,

- to provide ongoing maintenance, support and future development for ISO 16684,
 - to identify the XMP vocabularies and file format embedding rules for the graphic arts industry, and
 - to develop the necessary ISO standard(s) to document the identified vocabularies and rules.
- h) ISO/TC130 resolves to accept the invitation of ISO/TC42 to join with TC42 in a TC42-led JWG for the development of an International Standard (ISO 12234-3) describing the photographic applications of XMP based on ISO 16684-1.

16 Future meeting plans

- Time required for WG2 and its task forces for April 2011

The committee discussed the time requirements for WG2 for April 2011 and agreed that 1 day will be required.

17 Adjourn

McDowell thanked the committee members for their participation as well as Bruno Mortaro, Máira da Luz and ABNT, for hosting and providing meeting facilities.

There being no further business the meeting was adjourned.