



**ISO/IEC JTC 1/SC 29/WG 1
(ITU-T SG8)**

Coding of Still Pictures

JBIG

Joint Bi-level Image
Experts Group

JPEG

Joint Photographic
Experts Group

TITLE: Draft Meeting Report, the 17th Meeting of ISO/IEC JTC1/SC29/WG1,
1999-07-12/16, Vancouver, British Columbia, Canada

SOURCE: Daniel T. Lee - WG1 Convener

PROJECT: JPEG, JBIG

STATUS: Meeting Report to be approved at the 18th WG1 Hawaii Meeting
1999/12/06

**REQUESTED
ACTION:** For review

DISTRIBUTION: WG1, SC29 Secretariat

Contact:

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1. Opening of the Meeting

The 17th Meeting of ISO/IEC JTC1/SC29/WG1 meeting was opened at 9:15am, Monday, July 12, 1999, at the Hotel Vancouver, British Columbia, Canada. The meeting was hosted and organized by Standards Council of Canada and University of British Columbia and co-sponsored by Image Power.

1.1 Roll call

One hundred twenty-five delegates representing 17 national bodies participated in the meeting. The list of participants is recorded in N1337.

2. Approval of Agenda

The meeting agenda N1281 was approved.

3. Organisation of this meeting

3.1 Registration and allocation of contributions

The document register was recorded in N1336.

3.2 Meeting time allocation

The meeting time allocation as listed in N1281 was approved.

3.3 Nomination of Drafting Committee

A Drafting Committee for resolution drafting was formed. The following experts accepted the nomination to be members of the committee: Dr. Scott Foshee (USA, chair), Mr. Ikuro Ueno (Japan), Mr. Jean Barda (France), Mr. Diego Santa Cruz (Switzerland) and Dr. Klaus Jung (Germany).

4. Reports of the previous meeting and the interim period

4.1 Approval of Seoul Meeting Report

The 16th WG1 Seoul meeting report (N1277) was approved. The resolutions of the Seoul SC29 Plenary meeting (N1343) was reviewed and the SC29 Programme of Work coming out from the Seoul meeting (N1344) was reviewed.

5. Liaisons and correspondences

N1283 – ITU-T SG8 on JPEG2000 requirements. The question was handled by the JPEG2000 Requirements AHG. A reply liaison (N1392) was prepared and approved (Res. 26).

N1347 – ITU-T IPR Group Meeting Report. This is for information only, no action was taken.

N1328 – SC24 on metadata. This is for information only, no action was taken.

N1348 – Digital Imaging Group Presentation. The presentation was given at the Wednesday Plenary meeting.

N1338 – Statement of Benefits for Class C Liaison with CCSDS. The request for Liaison was approved (Res. 27) and request was forwarded to SC29 Secretariat for action.

N1329 – USNB request for joint WG1 and WG11 meeting. Joint meeting was held on Thursday.

N1335 – USNB administrative and liaison request. Requests were discussed and appropriate actions were taken.

N1342 – SC29 Class C Liaison with IMTC. This is for information only, no action was taken.

N1331 – TC130/WG2 Interest in JPEG2000. A reply liaison (N1391) was prepared and approved (Res. 28).

6. Project JTC 1.29.04.03 (JPEG Part 3, Extensions)

6.1 Report on results from Seoul meeting

FDAM 10918-3 was forwarded to ISO office for final processing.

7. Project JTC 1.29.04.04 (10918-4) JPEG Part 4: Registration Procedure for JPEG Profile, APPn Marker, and SPIFF Profile ID Marker

7.1 Report from JURA

French National Body presented the status on the completion of the JURA evaluation (N1368). WG1 appreciates the efforts undertaken by the French National body in conducting the evaluation.

7.2 Nomination of new project editor

Dr. James Kasner (USA) was nominated as the new project editor replacing Mr. Danny Rajan (USA) who resigned from the position.

8. Project JTC 1.29.12 (14495-Lossless Compression of Continuous-tone Still Pictures)

8.1 Report on results from Seoul Meeting

University of British Columbia has implemented JPEG-LS software for free use. The software can be obtained at the following web-site: <http://epmg.ece.ubc.ca> , direct to the software section. A report on the number of software downloads was given by UBC.

Another JPEG-LS freeware site was opened: <http://www.hpl.hp.com/loco>. It contains a Windows dll and an Adobe Photoshop Plugin for JPEG-LS. The JPEG-LS license from HP can also be obtained from that site.

8.2 Report from AHG on WD14495-2

The JPEG-LS AHG report is contained in N1371. Further work is still needed to complete the CD and it is difficult to start the CD ballot right after this meeting. Efforts are especially needed on the annexes for conformance testing and color transformation to move to the CD ballot stage.

9. Project JTC 1.29.10 (14492 - JBIG2 -Lossy/Lossless Coding of Bi-level Images)

The JBIG meeting report was contained in N1397. The CD ballot result was introduced by the Rapporteur. There were no disapproval vote. Yet many comments were received from US and Japan.

The editor, Dr. William Rucklidge introduced the status of comment disposition before the Vancouver meeting by distributing the Draft DOCR (N1356) and Draft FCD Text (N1357). The meeting result was introduced by distributing the DOCR (N1358) and FCD Text (N1359), both of which were approved by JBIG and WG1.

10. Project JTC 1.29.9 (14493 - Compression of Multiple-Component Still Pictures)

10.1 Report on results Seoul meeting

Experiments on compression of multiple-component were reported as part of JPEG2000 activities.

11. Project JTC 1.29.14 (15444 - JPEG 2000 Image Coding System)

11.1 Report on results from Seoul meeting

National Bodies Comments

N1320 – Chinese NB proposal for royalty-free IPR for JPEG2000

N1323 – Japan NB comments on JPEG2000 requirements

N1346 – Japan NB comments on JPEG2000 WD2.0

N1330 – USNB File Format requirement for Streaming

N1332 – USNB Informal comments on JPEG2000 WD 1.0

N1333 – USNB JPEG2000 convergence process

N1334 – USNB JPEG2000 File Format

N1353 – French NB comments on WG2.0

N1350 – Japan NB comments on Motion JPEG-2000

IPR Statements

N1325 – Microsoft Structured Storage License Agreement

N1326 – Ricoh IPR Statement

N1341 – Storm Technology Patent

M1351 – Mitsubishi MQ Coder

New Presentations

N1289 – Rounding factor recommendations

N1319 – Planning for Motion JPEG-2000 Project

N1349 - JJ2000, Java implementation of JPEG2000 VM

N1308 – IMEC on implementation results of tree-based wavelet coding

N1306 – EPFL contrast sensitivity filtering

11.2 Reports on Results from Seoul Meeting by Ad Hoc Groups on JPEG 2000:

Editing Group

N1291 – JPEG2000 WD 2.0

N1292 – JPEG2000 WD2.0 DOCR of US comments

Requirements AHG

N1322 – JPEG2000 Requirements and profiles, Version 5.1

N1309 – File format requirements

VM AHG

N1282, 1284, 1285, 1286, 1288: VM4.2

Architecture Subgroup/File Format Subgroup

N1290 – Corbis Metakit binary container

N1293 – Kodak proposal for colorspace for JPEG2000 file format

N1294 - Kodak Enhancements to codestream proposal

N1295 – Kodak eCODE file format

N1339 – Canon Color Space proposal for JPEG2000 file format (1)

N1340 – Canon Color Space proposal (2)

N1345 – Apple Quicktime proposal for JPEG2000 file format

N1314 – Object based information embedding (Sharp Labs, Nokia)

PR AHG

N1381 – Vancouver Meeting Press Release

Core Experiments AHG

Coding Efficiency

N1302 – Coding Efficiency Results from Seoul

N1304 – Compressed Image Manipulation (CRF, HP)

N1296 – Improved Tiling Mode (Motorola, CRF, HP)

N1316 – Improved Tiling Mode (CRF, Motorola, HP)

N1312 – Reduced Complexity Entropy Coding with Sub-Blocks (SAIC, Arizona, HP, UNSW, WSU, Kodak)

N1307 – Visual Assessment of TCQ and Lagrangian Rate Allocation (Fujifilm, SAIC)

N1311 – Lossless to lossy performance with different filters (Ricoh, Adobe)

N1313 – Low complexity Coding for JPEG2000 (TI, RPI, CISRA, Teralogic, HP)

N1310 – CREW-based entropy coder run-time for low complexity (Ricoh, Kodak)

Color

N1297 – Color Subgroup Seoul Results

Error Resilience

N1298 – Error Resilience Results from Seoul

N1317 – UBC Error resilience contribution

Region of Interest

N1301 – Region of Interest results from Seoul

N1305 – SAIC Complex valued SAR ROIs

Visual

N1299 - Visual Results from Seoul

N1303 – Sharp Labs Visual Masking

N1306 – EPFL Contrast Sensitivity Filtering

N1324 – Wisconsin on ringing artifacts

N1354 - USC on Ringing artifacts

Testing

N1300 - Testing subgroup results from Seoul

N1321 - Report from Testing Subgroup

11.2 Reports from Ad Hoc Groups on JPEG2000

The following reports were generated and approved by WG1:

Requirements AHG	N1405	Requirements AHG Meeting Report
Requirements AHG	N1386	DOCR to NB comments on JPEG2000 Requirements
Requirements AHG	N1385	JPEG2000 Requirements & Profiles, V.6.0
Core Experiments AHG	N1375	Core Experiments AHG Meeting Report
Core Experiments AHG	N1376	Update to VM5.0 from CE Sub-groups
Core Experiments AHG	N1406	Update to WD3.0 from CE Sub-groups
Core Experiments AHG	N1377	New Core Experiments
VM AHG	N1374	VM AHG Meeting Report
Architecture Subgroup	N1408	Architecture Subgroup Meeting Report
File Format Subgroup	N1395	File Format Subgroup Meeting Report
WD Editing Group	N1292	DOCR to NB comments on WD2.0
WD Editing Group	N1365	JPEG200 Editor chair report
PR AHG	N1381	Seoul Meeting Press Release

11.3 Interim Meetings

The following two Interim meetings were approved:

Res. 9 – Approval of JPEG 2000 core experiment ad hoc interim meeting

WG1 approves the holding of an ad hoc group meeting during the week of September 27th hosted by French NB with the objectives of reviewing the results of the set of core experiments listed in WG1N1407. WG1 authorizes the Core Experiments ad hoc group to review the results of only these core experiments so listed for possible inclusion into the WD and to be presented at the next WG1 meeting.

Res. 10 – Approval of JPEG 2000 Architecture ad hoc interim meeting

WG1 approves the holding of an ad hoc group meeting during the week of September 27th to be hosted by French National Body with the objectives of reviewing the results of the set of architecture/file format listed in WG1N1396. WG1 authorizes the Architecture ad hoc group in advancing the results of only these file format core experiments so listed for possible inclusion in the WD and to be presented at the next WG1 meeting.

11.4 JPEG2000 Subdivisions

The following subdivisions of JPEG2000 were proposed:

Res. 18 – Subdivision of JPEG2000 into Part I and Part II

WG1 approves the subdivision of JPEG2000 (15444) into Part I: Core Coding System and Part II: Extensions and requests SC29 for appropriate action, as in WG1N1404.

Res. 19 – Request to National Body members for comments on Motion-JPEG 2000

WG1 requests its National Body members to review and give comments on the proposal to subdivide JPEG2000 to include one additional part that is dedicated to Motion-JPEG2000 in WG1N1390.

11.5 JJ2000

The activities on JJ2000 development were presented in N1352. WG1 will continue to provide access to JJ2000 to software submissions to the VM AHG, so that an independent Java implementation of JPEG2000 can be performed by JJ2000, from the text, and with the help of the information provided in the software submissions, missing from the text description.

11.6 JPEG2000 Work Plan

The following work plan was revised:

Part	Title	CFP	WD	CD	FCD	FDIS	IS
1	JPEG 2000 Image Coding System: Core Coding System	97/03	99/03	99/12	00/07	00/11	01/03
2	JPEG 2000 Image Coding System: Extensions	97/03	00/03	00/07	00/11	01/03	01/07

12. Report on WG1 web-site administration

The following reports were issued by WG1 Webmaster

N1242	Proposed Standing Document – Meeting Facilities
N1397	WG1 Webmaster's Report

13. Identify hosts and specify dates for future meetings

The meeting schedules for future WG1 meeting was approved by WG1:

Meeting	Date	Location
AHG Interim Meeting	1999/09/29 - 1999/10/01	France
18th	1999/12/06-10	Maui, Hawaii, USA (co-located with WG11, SC29)
19th	2000/03/13-17	Tokyo, Japan
20th	2000/07/03-07	Arles, France (co-located with WG11, SC24)
21st	2000/11	USA
22nd	2001/03	TBD
23rd	2001/07	Stockholm, Sweden
24th	2001/11	Rochester, New York, USA

14. Other business

WG1 Officers meeting were held on Sunday, Tuesday, and HOD meetings were held: Monday, Wednesday and Friday. Meeting notes were kept by the WG1 Convener.

15. Resolutions

The meeting resolutions are contained in document N1371.

16. Closing of the meeting

The meeting was closed at 6.00pm on Friday, 1999 July 16. WG1 expresses its sincere thanks and appreciation to Standards Council of Canada and University of British Columbia.