

ISO/IEC JTC 1/SC 29

Coding of audio, picture, multimedia and hypermedia information

Secretariat: JISC (Japan)

Document type: Meeting Report

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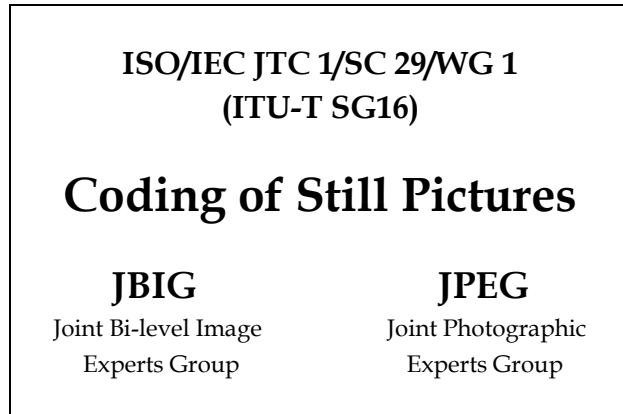
Source: Convener, ISO/IEC JTC 1/SC 29/WG 1

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Committee URL: <http://isotc.iso.org/livelink/livelink/open/jtc1sc29>



TITLE: La Jolla meeting report
71st Meeting of ISO/IEC JTC 1/SC 29/WG1
February 22 – 26, 2016, La Jolla, USA

SOURCE: WG 1 Convener

PROJECT: JPEG, JBIG

STATUS: Final

**REQUESTED
ACTION:** For information

DISTRIBUTION: WG 1 Distribution List

Contact:
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1. Open meeting

The 71st WG1 Meeting was held from February 22 to 26, 2016 in La Jolla, USA.

1.1 Roll call

There were XX delegates from XX National Bodies attending the meeting. The list of attendees is available in WG1N71002.

2. Approval of agenda

The meeting agenda was approved and is available in WG1N71004.

3. Organization of the meeting

3.1 Registration and allocation of contributions

A total of 125 documents were generated. 48 output documents were produced as N-documents and registered for La Jolla meeting and were allocated a unique number. 77 documents were contributed as input documents to La Jolla meeting. Their complete list is available at WG1 Livelink. All input documents and output documents are password protected except for meeting reports, resolutions and those foreseen for wider dissemination such as meeting calling notice, workshop announcements, etc. Such public documents are identified and approved in the resolutions of WG1 meeting in La Jolla.

3.2 Meeting time allocation

A link to meeting time allocation is available on Livelink. The time allocation is an online Google calendar accessible to all registered JPEG experts.

3.3 Nomination of Resolutions/Liaison Drafting Committee

The following resolutions drafting committee was nominated at WG1 Brussels meeting: Mr. Dale Stoltzka (Chair, US), Mr. Takaaki Ishikawa (JP), Dr. Youngseop Kim (KR), Dr. Siegfried Foessel (DE) and Dr. Tim Bruylants (BE).

4. Report on the previous meeting and interim period

The report of Brussels 70th WG1 meeting is registered in WG1N70001 and available on Livelink.

5. Liaisons, correspondences, etc.

5.1 A liaison response was issued to VSF on JPEG XS and JPEG 2000 ULL contained in WG1N71032.

5.2 A liaison letter was issued to VESA on JPEG XS contained in WG1N71033.

5.3 A liaison letter was issued to Qualinet on JPEG XS contained in WG1N71034.

5.4 Liaison letters were issued to SMPTE and EBU on on JPEG XS as contained in WG1N71035.

5.5 WG1 requested the establishment of liaison between ISO/IEC JTC1/SC27 and ISO/IEC JTC1 SC29 to foster close collaborations in the area of common interest on privacy and security in imaging technologies. Mr. Ambarish Natu (AU) was appointed as WG1 Liaison to ISO/IEC JTC1/SC27 in previous Brussels meeting.

6. JPEG Subgroups reports

WG1 approved and reaffirmed the following list of WG1 officers:

WG1 Convener	Prof. Touradj Ebrahimi (CH)
JBIG Rapporteur	Dr. Fumitaka Ono (chair) (JP) Mr. Shigetaka Ogawa (co-chair) (JP)
WG1 Webmaster	Dr. Tim Bruylants (Webmaster) (BE) Dr. Frederik Temmermans (co-Webmaster) (BE) Mr. Richard Clark (Honorary Webmaster) (UK)
WG1 PR and Liaison Subgroup	Dr. Peter Schelkens (chair) (BE) Dr. Fumitaka Ono (co-chair) (JP)
JPEG Requirements Subgroup	Dr. Fernando Pereira (chair) (PT) Mr. Walt Husak (co-chair) (US)
JPEG Coding & Analysis Subgroup	Dr. Peter Schelkens (chair) (BE) Mr. Takaaki Ishikawa (co-chair) (JP)
JPEG Systems Subgroup	Dr. Siegfried Foessel (chair) (DE) Dr. Joachim Keinert (co-chair) (DE)
JPEG Metadata Subgroup	Dr. Youngseop Kim (chair) (KR) Dr. Akio Yamada (co-chair) (JP)
JPEG Test & Quality Subgroup	Dr. Thomas Richter (chair) (DE) Mr. Dale Stolitzka (co-chair) (US)

6.1 JPEG Requirements SG

Requirements SG report is included in WG1N71040.

6.2 JPEG Coding & Analysis SG

JPEG Coding & Analysis SG report is included in WG1N71039.

6.3 JPEG Systems SG

JPEG Systems SG report is included in WG1N71023.

6.4 JPEG Test & Quality SG

JPEG Test & Quality SG report is included in WG1N71038.

6.5 JPEG Metadata SG

JPEG Metadata SG report is included in WG1N71020.

6.6 JBIG Subgroup

WG1 JBIG Subgroup report is included in WG1N71036.

6.7 WG1 PR and Liaison Subgroup

WG1 PR and Liaison Subgroup report is included in WG1N71043.

7. AhGs Established in La Jolla

WG1 approved creation of new Ad-hoc groups as listed below.

1. [Ad Hoc Group on JPEG Privacy & Security](#)
2. [JAhG on Digital Representations of Light/Sound Field for Immersive Media Applications](#)
3. [Ad Hoc Group on JPEG Innovations](#)
4. [Ad Hoc Group on low latency lightweight image coding system \(JPEG...](#)
5. [Ad Hoc Group for Identifying Next Generation Still Image Codecs](#)
6. [Ad Hoc Group on Backward Compatible Extensions of JPEG \(JPEG XT...](#)
7. [Ad Hoc Group on AIC](#)
8. [Ad Hoc Group on JPSearch](#)
9. [Ad Hoc Group on JPEG Systems](#)
10. [Ad Hoc Group on LiveLink and JPEG Website](#)
11. [Ad Hoc Group on Verification of JPEG XT](#)

Requirements SG	
Name	Ad Hoc Group on JPEG Privacy & Security
Chair	Takaaki Ishikawa (takaxp@ieee.org)
Co-chairs	Peter Schelkens (Peter.Schelkens@vub.ac.be)
Mandates/ Objectives	<ul style="list-style-type: none">● Review and update the latest requirements document● Discuss well organized signaling mechanisms, which can be applied to JPEG family of standards● Preparation of a 3rd workshop on JPEG Privacy & Security to take place at the 73rd WG1 meeting in Chengdu.
Deliverables	<ul style="list-style-type: none">● Draft call for participation to the 3rd workshop on JPEG Privacy & Security to take place at the 73rd meeting in Chengdu● Updated use cases and requirements document
Meetings	<ul style="list-style-type: none">● Online meetings (will be announced following the procedure described in WG1 AhGs rules)

How to join	E-mail reflector: jpeg-privacy@listserv.uni-stuttgart.de In order to subscribe to the mailing list, send an (empty) email to jpeg-privacy-join@listserv.uni-stuttgart.de and follow the steps of the e-mail being received. Also send an email to richter@rus.uni-stuttgart.de.
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Requirements SG	
Name	JAhG on Digital Representations of Light/Sound Fields for Immersive Media Applications
Chair	Siegfried Foessel, Arianne Hinds, Gauthier Lafruit, Schuyler Quackenbush
Co-chair	
Mandates/ Objectives	<ul style="list-style-type: none"> • Identify use cases and priorities with respect to industry needs. Solicit for industry engagement. • Define processing workflow(s) for immersive application scenarios using digital representations such as lightfield samples, soundfield samples, point clouds, and audio objects. • Provide lists of technologies and underlying representation models for the different stages of the application pipeline. Explore commonalities and differences between the technologies at the different interfaces. • Study the benefits and limitations of existing technologies for the different stages of the application pipeline. • Collect test materials and assessment methodologies
Deliverables	Summary report (Use cases, industry priorities, processing workflows, list of technologies and identifications of commonalities) -> List sections in report + responsible editors per section
Meetings	2 teleconference meetings will be scheduled in late March and late April after consultation of the JAhG members. Meeting on Sunday, May 29, 2016.
How to join	E-mail reflector: subscribe at https://lists.aau.at/mailman/listinfo/lightfield

Requirements SG	Public
Name	Ad Hoc Group on JPEG Innovations

Chair	Peter Schelkens (Peter.Schelkens@vub.ac.be)
Co-chair	-
Mandates/ Objectives	<p>Given the fact that WG1 & WG11 established a Joint AhG on Digital Representations of Light/Sound Fields for Immersive Media Applications, the activities of JPEG PLENO within the JPEG Innovations AhG will be focused on holographic data. Hence, the mandates of JPEG Innovations AhG include:</p> <ul style="list-style-type: none"> • Further refine use cases, requirements • Solicit industry engagement • Collect existing evidence of developments related to this domain • Start defining evaluation methodologies including gathering test material. <p>GENERAL MANDATES</p> <ul style="list-style-type: none"> • Collect innovative ideas for future JPEG projects • Support dissemination of JPEG standards
Deliverables	<ul style="list-style-type: none"> • Updated scope, use cases and requirements document
Meetings	A teleconference meeting will be scheduled in April after consultation of the JPEG Innovation AHG members.
How to join	<p>E-mail reflector: jpeg-innovations@listserv.uni-stuttgart.de</p> <p>In order to subscribe to the mailing list, send an (empty) email to jpeg-innovations-join@listserv.uni-stuttgart.de and follow the steps of the e-mail being received. Also send an email to richter@rus.uni-stuttgart.de.</p>

Requirements SG	
Name	Ad Hoc Group on low latency lightweight image coding system (JPEG XS)
Chair	Tim Bruylants (tbruylan@etro.vub.ac.be)
Co-chair	Antonio Pinheiro (pinheiro@ubi.pt), Benoit Macq (benoit.macq@uclouvain.be)
Mandates/ Objectives	<ul style="list-style-type: none"> • Disseminate the Call for Proposals • Setup a solution to let proponents access and download the test sequences • Collect proponents' registrations and ensure proposals' overviews are submitted as inputs documents to 72nd WG1 meeting • Devise a detailed test plan for evaluation of JPEG XS anchors
Deliverables	<ul style="list-style-type: none"> • Report on the implementation of evaluations and the associated results

Meetings	<ul style="list-style-type: none"> • Online meetings (will be announced following the procedure described in WG1 AhGs rules) • One face to face meeting with WebEx remote access (location and date will be announced following the procedure described in WG1 AhGs rules).
How to join	E-mail reflector: jpeg-xs@listserv.uni-stuttgart.de In order to subscribe to the mailing list, send an (empty) email to jpeg-xs-join@listserv.uni-stuttgart.de and follow the steps of the e-mail being received.

Requirements SG	
Name	Ad Hoc Group for Identifying Next Generation Still Image Codecs
Chair	Thomas Richter (richter@tik.uni-stuttgart.de)
Co-chair	Peter Schelkens (pschelke@etro.vub.ac.be)
Mandates/ Objectives	<ul style="list-style-type: none"> • Solicit contributions for ICIP 2016 Compression Grand Challenge • Coordinate evaluations of responses received • Coordinate peer review of associated papers
Deliverables	
Meetings	<ul style="list-style-type: none"> • Online meetings (will be announced following the procedure described in WG1 AhGs rules).
How to join	E-mail reflector: jpeg-aic@listserv.uni-stuttgart.de In order to subscribe to the mailing list, send an email to jpeg-aic-join@listserv.uni-stuttgart.de or to richter@tik.uni-stuttgart.de.

Test & Quality SG	
Name	Ad Hoc Group on Backward Compatible Extensions of JPEG (JPEG XT)
Chair	Thomas Richter (richter@tik.uni-stuttgart.de)
Co-chair	Alessandro Artusi (a.artusi@xdepth.com)
Mandates/ Objectives	<ul style="list-style-type: none"> • Continue identifying or develop technologies that can be integrated into JPEG coding to extend its capabilities in the framework of JPEG XT • Editorial coordination of JPEG XT specifications

	<ul style="list-style-type: none"> ● Identify test material and test procedures related to JPEG extensions ● Disseminate JPEG XT ● Revise and update JPEG XT test streams
Deliverables	<ul style="list-style-type: none"> ● JPEG XT updated specification ● JPEG XT updated reference software ● Image test sets to verify the validity and correctness of the proposed technology ● Codestreams for testing JPEG XT implementations ● Generate suitable error bounds to facilitate JPEG XT testing
Meetings	
How to join	<p>E-mail reflector: jpeg-extensions@listserv.uni-stuttgart.de</p> <p>In order to subscribe to the mailing list, send an email to jpeg-extensions-join@listserv.uni-stuttgart.de or to richter@tik.uni-stuttgart.de</p>

Test & Quality SG	
Name	Ad Hoc Group on AIC
Chair	Dale Stolzka (d.stolzka@samsung.com)
Co-chair	Thomas Richter (richter@tik.uni-stuttgart.de)
Mandates/ Objectives	<ul style="list-style-type: none"> ● Finalize the ISO/IEC DTR 29170-1 study text ● Seek comments for the WD of AIC-2/AMD1 ● Seek comments for the WD of AIC-2/AMD2
Deliverables	<ul style="list-style-type: none"> ● Revised Study Text for ISO/IEC DTR 29170-1 ● Comments on working drafts of AIC-2 AMD1 and AMD2
Meetings	<ul style="list-style-type: none"> ● Online meetings (will be announced following the procedure described in WG1 AhGs rules)
How to join	<p>E-mail reflector: jpeg-aic@listserv.uni-stuttgart.de</p> <p>In order to subscribe to the mailing list, send an (empty) email to jpeg-aic-join@listserv.uni-stuttgart.de and follow the steps of the e-mail being received. Also send an email to richter@rus.uni-stuttgart.de.</p>

Metadata SG	
Name	Ad Hoc Group on JPSearch
Chair	Frederik Temmermans (ftemmerm@etro.vub.ac.be)
Co-chair	Youngseop Kim (wangcho@dankook.ac.kr)

Mandates/ Objectives	<ul style="list-style-type: none"> • Coordinate the implementation of JPSearch reference software • Promote JPSearch standard • Revise requirements and use cases of JPSearch with respect to file format and augmented reality • Design registration process for JPOnto • Provide feedback on the Photography Hackathon
Deliverables	<ul style="list-style-type: none"> • Updated version of JPSearch Part 6 AMD-1 • Revised requirements and use cases • Proposed registration process of the JPOnto
Meetings	<ul style="list-style-type: none"> • A meeting on Sunday May 29th 2016, before the next WG1 meeting (will be announced following procedure described in WG1 AhGs rules).
How to join	<p>E-mail reflector: jpeg-jpsearch@listserv.uni-stuttgart.de In order to subscribe to the mailing list, send an (empty) email jpeg-jpsearch-join@listserv.uni-stuttgart.de to and follow the steps of the e-mail being received.</p>

Systems SG	
Name	Ad Hoc Group on JPEG Systems
Chair	Siegfried Föbel (siegfried.foessel@iis.fraunhofer.de)
Co-chair	Joachim Keinert (joachim.keinert@iis.fraunhofer.de)
Mandates/ Objectives	<ul style="list-style-type: none"> • Work with David Singer on how to fix references and linkage of 15444-3 and 29199-3 related to the ISO BMF • Update registration of box types on http://www.mp4ra.org/ based on the actual collected list of 19566-3 • Developing an improved method for registration of box types in MPEG and JPEG
Deliverables	<ul style="list-style-type: none"> • Proposed changes in the text of ISO 15444-3 and 29199-3 or reestablish links to older versions of 15444-12 • Updated website of registration authority http://www.mp4ra.org/ • Proposal for future registration handling of box types
Meetings	<ul style="list-style-type: none"> • One online meeting (will be announced following the procedure described in WG1 AhGs rules)
How to join	<p>E-mail reflector: jpeg-systems@listserv.uni-stuttgart.de In order to subscribe to the mailing list, send an (empty) email to jpeg-systems-join@listserv.uni-stuttgart.de and follow the steps of the e-mail being received. Also send an email to richter@rus.uni-stuttgart.de.</p>

PR & Liaisons SG	
Name	Ad Hoc Group on Livelink and JPEG Website
Chair	Tim Bruylants (tbruylan@etro.vub.ac.be)
Co-chair	Frederik Temmermans (ftemmerm@etro.vub.ac.be)
Mandates/ Objectives	<ul style="list-style-type: none"> ● Identify current shortcomings with Livelink ● Propose text for Terms of Reference ● Propose text on Standing Document regarding meeting facility requirements
Deliverables	<ul style="list-style-type: none"> ● List of Livelink shortcomings and potential solutions ● Proposed text on Terms of Reference ● Proposed text on meeting facility requirements
Meetings	None
How to join	<p>E-mail reflector: jpeg-livelink@listserv.uni-stuttgart.de</p> <p>In order to subscribe to the mailing list, send an (empty) email to jpeg-livelink-join@listserv.uni-stuttgart.de and follow the steps of the e-mail being received. Also send an email to richter@rus.uni-stuttgart.de.</p>

Test and Quality	
Name	Ad Hoc Group on Verification of JPEG XT
Chair	Shigetaka Ogawa (s_ogawa@mug.biglobe.ne.jp)
Co-chair	Thomas Richter (richter@tik.uni-stuttgart.de)
Objectives	<ul style="list-style-type: none"> ● To evaluate the interoperability between various JPEG XT implementations ● Verification of ISO/IEC 18477-8 ● Verification of ISO/IEC 18477-9 ● Subjective assessment to verify the current status of JPEG XT ● Verify bitstream exchange between various JPEG XT implementations by subjective and objective evaluations and cross-testing between various encoders and decoders

Test and Quality	
Deliverables	<ul style="list-style-type: none"> • Subjective quality scores obtained by encoding and decoding the HDR test image set on the same and different codec implementations • Objective quality scores obtained by cross-wise testing of differing implementations • Recommendations for error bounds for reference testing to be integrated into ISO/IEC 18477-4
Meetings	<ul style="list-style-type: none"> • One online meeting (will be announced following the procedure described in WG1 AhGs rules)
How to join	<p>E-mail reflector: jpeg-extensions@listserv.uni-stuttgart.de</p> <p>In order to subscribe to the mailing list, send an (empty) email to jpeg-extensions-join@listserv.uni-stuttgart.de and follow the steps of the e-mail being received.</p>

8. Report on WG1 website administration and document management

The new website has been operating well and continues to be accessible from: <http://www.jpeg.org>
A report from Webmaster was made to WG1 on the latest updates and status of the above mentioned website.

9. Press release

WG1 approved the 71st WG1 La Jolla Meeting Press Release as contained in WG1N71042.

10. Future meetings

WG1 attempted to co-locate all its meetings with WG11 in order to better strengthen cooperation between respective experts.

WG1 Meeting	Year	Dates	City, Country	Calling Notice
72 nd	2016	May 29 – Jun 3	Geneva, CH (co-located with WG11)	WG1N71003
73 rd	2016	Oct 16 – Oct 21	Chengdu, China (co-located with WG11) (to be confirmed)	
74 th	2017	Jan 16 – Jan 20	Geneva, CH (co-located with WG11) (to be confirmed)	
75 th	2017	Apr 3 – Apr 7	Hobart, AU (co-located with WG11) (to be confirmed)	
76 th	2017	Jul 17 – Jul 21	Torino, IT (co-located with WG11) (to be confirmed)	

11. Resolutions

Resolutions of 71st WG1 meeting in La Jolla are registered in document WG1N71004.

12. JPEG Workshops

A workshop to be organized during 73rd WG1 meeting in Chengdu was planned on JPEG Privacy & Security in order to receive further input from experts and stakeholders in Asia, after two previous editions in Europe and North America.

12. Close of meeting

71st WG1 meeting in La Jolla was concluded on 26th February 2016 at 13:45.