

**ISO/IEC JTC 1/SC29/WG1
(ITU-T SG16)**

Coding of Still Pictures

JBIG

Joint Bi-level Image
Experts Group

JPEG

Joint Photographic
Experts Group

TITLE: List of AHGs established during the 91st ISO/IEC JTC 1/SC29/WG1 Meeting, 2021-04-19 to 2021-04-23, Online

SOURCE: WG1 Convenor

PROJECT: All WG1 projects

STATUS: Final

REQUESTED ACTION: For information

DISTRIBUTION: Public

Contact:

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Subgroup	-
Mailing list	Public
Name	Ad Hoc Group on JPEG AI joint ITU/ISO/IEC standards
Chair	Touradj Ebrahimi (touradj.ebrahimi@epfl.ch) Yuntao Wang (wangyuntao@caict.ac.cn) Gary Sullivan (garysull@microsoft.com)
Co-chair	-
Mandates/ Objectives	<ul style="list-style-type: none"> ● Discuss JPEG AI standards (resulting in common/twin text between ITU/ISO/IEC) ● Facilitate and coordinate matters and issues to JPEG AI standards ● Recommend a course of action to ISO/IEC JTC1/SC29/WG1
Deliverables	<ul style="list-style-type: none"> ● Report on JPEG AI process
Meetings	<ul style="list-style-type: none"> ● Online AHG meetings with at least one week's notice
How to join	Email reflector: jpeg-itu To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org . The mailing list is open to ITU-T SG16, Q5/16 and Q6/16 experts.

Subgroup	Image Coding and Quality
Mailing list	Moderated
Name	Ad Hoc Group on JPEG XS

Chair	Tim Bruylants (t.bruylants@intopix.com)
Co-chair	Thomas Richter (thomas.richter@iis.fraunhofer.de)
Mandates/ Objectives	<ul style="list-style-type: none"> ● Run Core Experiment 3 on ISO/IEC 21122-3 as specified in WG1N90037 ● Run Exploration Study 3 as specified in WG1N91046 ● Prepare DOCR for DIS ballot and prepare FDIS or IS Study text for ISO/IEC 21122-2 2nd Edition ● Prepare CD for ISO/IEC 21122-4 2nd Edition ● Prepare CD for ISO/IEC 21122-5 2nd Edition ● Create and test updated Python 3 codestream parser for JPEG standards jointly with JPEG Systems and JPEG 2000 ● Prepare a draft of an updated White Paper to describe new Bayer coding tools ● Exploration of new Use Cases and new tools for quality enhancements ● Prepare new requirements for a potential 3rd edition of ISO/IEC 21122
Deliverables	<ul style="list-style-type: none"> ● Results of Core Experiment 3 ● Results of Exploration Study 3 ● Draft DOCR and FDIS Study text for ISO/IEC 21122-2 2nd edition ● CD Study text for ISO/IEC 21122-4 2nd Edition ● CD Study text for ISO/IEC 21122-5 2nd Edition ● Updated codestream parser for JPEG standards ● Draft of an updated White Paper, including sensor compression ● Document on new Use Cases and new tools ● Document on new requirements for ISO/IEC 21122 3rd edition
Meetings	<p>Joint online AHG meetings on the following dates</p> <ul style="list-style-type: none"> ● With XL AHG on HDR (see XL) Monday 2021-05-03, 7:00-9:00 UTC ● With Systems AHG on codestream parser (see Systems) Thursday 2021-05-27, 14:00-15:00 UTC <p>Online AHG meetings on the following dates</p> <ul style="list-style-type: none"> ● Thursday 2021-05-06, 7:00-8:00 UTC ● Thursday 2021-05-20, 7:00-8:00 UTC ● Thursday 2021-06-03, 7:00-8:00 UTC ● Thursday 2021-06-17, 7:00-8:00 UTC ● Thursday 2021-07-01, 7:00-11:00 UTC <p>Additional online meetings may be scheduled as required with at least a one week's notice</p>
How to join	<p>Email reflector: jpeg-xs</p> <p>To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org.</p>

Subgroup	Communication
Mailing list	Moderated
Name	Ad Hoc Group on JPEG Website, Sponsorships & Operations
Chair	Frederik Temmermans (frederik.temmermans@vub.be)
Co-chair	Tim Bruylants (t.bruylants@intopix.com)
Mandates/ Objectives	<ul style="list-style-type: none"> ● Maintain JPEG website and update content

	<ul style="list-style-type: none"> • Publish the Press Release & Calling Notice • Publish 3rd JPEG DNA Workshop and 2nd JPEG Fake Media Workshop proceedings and publish workshop videos on JPEG YouTube channel • Implement new jpeg.org landing page layout • Discuss and propose an updated version of the list of projects descriptions for the website • Update website content for JPEG Systems and add Documentation page • Follow up on ISO Documents and procedure for uploading documents and provide recommendation on document management workflow • Refine and complete JPEG Operating Manual • Initiate web-hosted version of JPEG Operating Manual • Maintain list of defect reports
Deliverables	<ul style="list-style-type: none"> • Updated JPEG Operating Manual draft • ISO Documents guidelines and workflow
Meetings	<p>Online AHG meetings on the following dates</p> <ul style="list-style-type: none"> • Wednesday 2021-05-19, 11:00-12:00 UTC • Tuesday 2021-06-15, 11:00-12:00 UTC <p>Additional online meetings may be scheduled as required with at least a one week's notice.</p>
How to join	<p>Email reflector: jpeg-website</p> <p>To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org.</p>

Subgroup	Plenoptic Coding and Quality
Mailing list	Public
Name	Ad Hoc Group on JPEG Pleno Light Field
Chair	Cristian Perra (cperra@ieee.org)
Co-chair	Carla Pagliari (carla@ime.eb.br)
Mandates/ Objectives	<ul style="list-style-type: none"> • Run Exploration Study 11 on JPEG Pleno Light Field defined in WG1N91055 • Update and maintain JPEG Pleno Reference Software • Run Core Experiment 7 on JPEG 2000 Part 17 Coding of Discontinuous Media defined in WG1N91056 • Prepare updated CTC for ISO/IEC 15444-17
Deliverables	<ul style="list-style-type: none"> • Report on Exploration Study 11 on JPEG Pleno Light Field • Updated JPEG Pleno reference software • Report on Core Experiment 7 on JPEG 2000 Part 17 • Updated CTC for ISO/IEC 15444-17
Meetings	<ul style="list-style-type: none"> • 2-weekly AHG meetings are planned, the exact dates will be decided by 2021-04-28 <p>Additional online meetings may be scheduled as determined by the AHG with at least one week's notice</p>
How to join	<p>Email reflector: jpeg-lightfield</p> <p>To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org.</p>

Subgroup	Requirements
Mailing list	Public
Name	Ad Hoc Group on JPEG Pleno Point Cloud
Chair	Stuart Perry (stuart.perry@uts.edu.au)
Co-chair	Luis Cruz (lcruz@deec.uc.pt)
Mandates/ Objectives	<ul style="list-style-type: none"> Propose improvements to Use Cases and Requirements document. Extend the CTC document to the new scope. Collect and define a training point cloud data set. Develop a process to define a test data set. Promote the activity to industry and academia.
Deliverables	<ul style="list-style-type: none"> Proposal for updated JPEG Pleno Point Cloud Use Cases and Requirements document including updated scope. Proposal for updated JPEG Pleno Point Cloud Common Test Conditions document. A training point cloud dataset. A process for defining appropriate test data sets for studies.
Meetings	Online meetings will be scheduled in agreement with the participants
How to join	Email reflector: jpeg-pointcloud To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org .

Subgroup	Plenoptic Coding and Quality
Mailing list	Public
Name	Ad Hoc Group on JPEG Pleno Holography
Chair	Kwan-Jung Oh (kjoh@etri.re.kr)
Co-chair	Peter Schelkens (Peter.Schelkens@vub.be)
Mandates/ Objectives	<ul style="list-style-type: none"> Manage and execute Exploration Study 12 as contained in WG1N91059 Maintain Numerical Reconstruction Software for Holography (NRSH) Update Common Test Conditions (CTC) Prepare test labs to handle Call for Proposals evaluation
Deliverables	<ul style="list-style-type: none"> Report on Exploration Study 12 Updated Numerical Reconstruction Software for Holography (NRSH) Updated Common Test Conditions (CTC) document
Meetings	<ul style="list-style-type: none"> 2-weekly AHG meetings are planned, the exact dates will be decided by 2021-05-07 Additional online meetings as determined by the AHG with at least one week's notice
How to join	Email reflector: jpeg-holo To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org .

Subgroup	Image Coding and Quality
Mailing list	Public
Name	Ad Hoc Group on JPEG 2000
Chair	Pierre-Anthony Lemieux (pal@sandflow.com)
Co-chair	David Taubman (d.taubman@unsw.edu.au)
Mandates/ Objectives	<ul style="list-style-type: none"> • Maintain HTJ2K GitLab repositories • Prepare CD study text of ISO/IEC 15444-8 2ED (“Secure JPEG 2000”) • Prepare CD study text of ISO/IEC 15444-9 2ED (“JPEG 2000 image coding system: Interactivity tools, APIs and protocols”)
Deliverables	<ul style="list-style-type: none"> • CD study text of ISO/IEC 15444-8 2ED • CD study text of ISO/IEC 15444-9 2ED
Meetings	Online AHG meetings on the following date: <ul style="list-style-type: none"> • Tuesday 2021-05-18, 23:00 UTC - Wednesday 2021-05-19, 01:00 UTC Additional online interim meetings as determined by the AHG with at least one week’s notice
How to join	Email reflector: jpeg-htj2k To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org .

Subgroup	Image Coding and Quality
Mailing list	Public
Name	Ad Hoc Group on JPEG XL
Chair	Jon Sneyers (jon@cloudinary.com)
Co-chair	Luca Versari (veluca@google.com)
Mandates/ Objectives	<ul style="list-style-type: none"> • Maintenance of reference software • Execute Core Experiment 10 • Execute Exploration Study 10 • Prepare CD study text for ISO/IEC 18181-3 • Prepare website updates
Deliverables	<ul style="list-style-type: none"> • Updated reference software • Report of CE 10 • Report of ES 10 • CD study text of ISO/IEC 18181-3
Meetings	Online AHG meetings on the following date: <ul style="list-style-type: none"> • Monday 2021-06-21, 12:00-13:00 UTC on CE 10 and Part 3 Online Joint AHG meeting with JPEG XS on the following date: <ul style="list-style-type: none"> • Monday 2021-05-03 07:00-09:00 UTC on ES 10 Additional online meetings may be scheduled with at least one week’s notice
How to join	Email reflector: jpeg-xl To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org .

Subgroup	Requirements
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Mailing list	Public
Name	Ad Hoc Group on JPEG Fake Media
Chair	Frederik Temmermans (frederik.temmermans@vub.be)
Co-chair	Deepayan Bhowmik (d.bhowmik@ieee.org)
Mandates/ Objectives	<ul style="list-style-type: none"> • Refine the “JPEG Fake Media Context, Use Cases and Requirements” document • Refine requirements and assess available solutions related to media creation and modification descriptions • Refine requirements and assess available solutions related to the metadata embedding framework • Refine requirements and assess available solutions related to the authenticity verification framework • Align with the JPEG NFT and JPEG Systems AHGs • Engage with stakeholders and attract them contribute
Deliverables	<ul style="list-style-type: none"> • Updated “JPEG Fake Media Context, Use Cases and Requirements” document
Meetings	Online AHG meetings on the following dates: <ul style="list-style-type: none"> • Thursday 2021-05-06, 12:00-14:00 UTC to discuss progress on mandates (second hour joint with Systems). • Thursday 2021-06-03, 12:00-14:00 UTC to discuss progress on mandates (second hour joint with Systems). • Thursday 2021-06-24, 12:00-14:00 UTC to discuss progress on mandates and prepare for the 92nd meeting. Additional online meetings may be scheduled as required with at least a one week’s notice
How to join	Email reflector: jpeg-fake-media To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org .

Subgroup	Requirements
Mailing list	Public
Name	Ad Hoc Group on JPEG AI
Chair	João Ascenso (joao.ascenso@lx.it.pt)
Co-chair	Elena Alshina (elena.alshina@huawei.com)
Mandates/Objectives	<ul style="list-style-type: none"> • Manage and perform exploration experiments (EE) on compressed domain computer vision and image processing tasks, organize cross-checks for EE anchors and tests, ensure conclusive results of EEs • Implement and make available the JPEG AI quality assessment framework • Improve the JPEG AI Common Test Conditions • Generate and distribute anchors performance under draft common test conditions • Improve the draft JPEG AI Call for Proposals
Deliverables	<ul style="list-style-type: none"> • Proposed Draft JPEG AI Call for Proposals • Proposed revision of JPEG AI Common Test Conditions • Report on the exploration study on compressed domain computer vision and image processing tasks

Meetings	Online AHG meetings on the following dates: <ul style="list-style-type: none"> • Wednesday 2021-05-19, 13:00-15:30 UTC • Wednesday 2021-06-16, 13:00-15:30 UTC • Wednesday 2021-06-30, 13:00-15:30 UTC Additional online meetings may be scheduled as required with at least one week's notice.
How to join	Email reflector: jpeg-ai To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org .

Subgroup	Systems & Integration
Mailing list	Public
Name	Ad Hoc Group on JPEG Systems
Chair	Andy Kuzma (andy.kuzma@intel.com)
Co-chair	Frederik Temmermans (frederik.temmermans@vub.be)
Mandates/ Objectives	<ul style="list-style-type: none"> • Complete the proof check for ISO/IEC 19566-5 AMD1 by 2021-05-13 • Complete the proof check for ISO/IEC 19566-6 AMD1 by 2021-05-13 • Develop use cases and requirements for JUMBF extensions (Joint with JPEG Fake Media) • Develop JPEG Systems white paper draft • Provide content JPEG Systems website updates • Prepare JPEG Snack DIS study text • Develop APP11 robustness best practices • Create a JUMBF application detector project in the JPEG Systems software repository
Deliverables	<ul style="list-style-type: none"> • ISO/IEC 19566-5 AMD1 finalized with ISO Editor • ISO/IEC 19566-6 AMD1 finalized with ISO Editor • Input use cases and requirements document for JUMBF extensions for 92nd meeting Requirements review • Outline of approaches to improve APP11 robustness best practices • JPEG Systems white paper for 92nd meeting Communications review. • Updated JPEG Systems website • If available, DOCR for JPEG Snack CD, and JPEG Snack DIS study text • JUMBF application detector project
Meetings	Online AHG meetings on the following dates: <ul style="list-style-type: none"> • Thursday 2021-05-06, 13:00 – 14:00 UTC on use cases & requirements (Joint with Fake Media AHG) • Thursday 2021-05-06, 14:00 – 14:30 UTC on JUMBF AMD1 PRF and JPEG 360 AMD1 PRF readiness. • Thursday 2021-05-20, 13:00 – 15:00 UTC on JUMBF extensions and JPEG Systems website, APP11 robustness and JPEG Systems white paper. • Thursday 2021-05-27, 14:00 – 15:00 UTC on development of Python 3 codestream parser (Joint with JPEG XS) • Thursday 2021-06-03, 14:00 – 15:00 UTC on JPEG Snack DIS study text • Thursday 2021-06-10, 13:00 – 15:00 UTC on Systems reference software, APP11 robustness, and white paper. • Thursday 2021-06-24, 13:00 – 15:00 UTC on Systems reference software, APP11 robustness, and white paper. • Thursday 2021-07-01, 13:00 – 14:30 UTC on 92nd JPEG meeting preparation and JPEG Snack DIS study text

	Additional online meetings may be scheduled as determined by the AHG with at least one week's notice
How to join	Email reflector: jpeg-systems To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org .

Subgroup	Image Coding and Quality
Mailing list	Public
Name	Ad Hoc Group on JPEG Reference software
Chair	Thomas Richter (thomas.richter@iis.fraunhofer.de)
Co-chair	
Mandates/ Objectives	<ul style="list-style-type: none"> • Check for updates of the reference software implementations • Potentially check for the creation of a 3rd edition of ISO/IEC 10918-7
Deliverables	<ul style="list-style-type: none"> • Potentially new versions of JPEG reference software implementations
Meetings	Online meetings may be scheduled as required with at least one week's notice
How to join	Email reflector: jpeg-reference To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org .

Subgroup	Requirements
Mailing list	Moderated
Name	Ad Hoc Group on Best Practices for JPEG Meetings
Chair	Walt Husak (wjh@dolby.com)
Co-chair	
Mandates/ Objectives	<ul style="list-style-type: none"> • Continue analyzing the data from the JPEG Meetings Best Practices survey • Complete the survey analysis and report • Recommend potential solutions to address the issues • Analyze potential procedures or structures that may be applicable to JPEG • Consider a follow-up survey or questions • Continue communication with the AG17 representatives
Deliverables	<ul style="list-style-type: none"> • Survey summary report • Report on potential meeting practices
Meetings	<ul style="list-style-type: none"> • Regular bi-weekly online meetings
How to join	Email reflector: jpeg-meetings To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org .

Subgroup	Requirements
Mailing list	Public
Name	Ad Hoc Group on Digital Media Storage using DNA
Chair	Touradj Ebrahimi (touradj.ebrahimi@epfl.ch)
Co-chair	Marc Antonini (am@i3s.unice.fr)
Mandates/ Objectives	<ul style="list-style-type: none"> • Continue with the analysis of the state-of-the-art in DNA digital storage and identification of challenges especially relevant to JPEG's scope • Continue identification, description and improvement of use cases and requirements focused on digital media applications and prioritize them based on their maturity and expected time to deployment • Continue with identification and description of potential areas where JPEG can contribute with best practices and standards • Identify and invite stakeholders (academia, industry, end-user communities) • Identification of sequencing model to use for DNA digital storage • Organize a fourth workshop on DNA digital storage prior to the 92nd JPEG meeting
Deliverables	<ul style="list-style-type: none"> • Proposal for updates to the report on state-of-the-art in DNA digital storage and challenges, use cases and requirements for digital media storage using DNA • Proceedings of the fourth JPEG DNA workshop
Meetings	Online AHG meetings as determined by the AHG with at least one week's notice
How to join	Email reflector: jpeg-dna To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org .

Subgroup	Requirements
Mailing list	Public
Name	Ad Hoc Group on NFT
Chair	Kambiz Homayounfar (kambiz@rayshapersa.ch)
Co-chair	Frederik Temmermans (frederik.temmermans@vub.be)
Mandates/ Objectives	<ul style="list-style-type: none"> • Explore and analyze the state-of-the-art in NFTs for digital assets especially those that can be represented using JPEG formats • Identify and describe use cases and requirements for NFTs focused on digital media types and applications relevant to JPEG • Identify and describe potential areas where JPEG can contribute with best practices and standards • Coordinate efforts with JPEG Fake Media and JPEG Systems AHGs • Identify and invite stakeholders from academia, industry, end-user communities • Organize a workshop on JPEG NFTs prior or during the 92nd JPEG meeting
Deliverables	<ul style="list-style-type: none"> • Report on context, use cases and requirements for JPEG NFTs • Proceedings of the first JPEG NFT workshop

Meetings	<ul style="list-style-type: none">• Online AHG meetings as determined by the AHG with at least one week's notice
How to join	Email reflector: jpeg-nft To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org .