

**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 Ad Hoc Groups established during the 93rd
ISO/IEC JTC 1/SC29/WG1 Meeting,
2021-10-18 to 2021-10-22, Online

SOURCE: WG1 Convenor

PROJECT: All WG1 projects

STATUS: Final

**REQUESTED
ACTION:** For information

DISTRIBUTION: Public

Contact:

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WG1 approved creation of the following new Ad Hoc Groups listed below.

1. [Ad Hoc Group on JPEG AI joint ITU/ISO/IEC standards](#)
2. [Ad Hoc Group on JPEG Website & Operations](#)
3. [Ad Hoc Group on Fake Media](#)
4. [Ad Hoc Group on NFT](#)
5. [Ad Hoc Group on Digital Media Storage using DNA](#)
6. [Ad Hoc Group on JPEG AI](#)
7. [Ad Hoc Group on JPEG Pleno Point Cloud](#)
8. [Ad Hoc Group on Image Quality Assessment](#)
9. [Ad Hoc Group on JPEG Pleno Light Field](#)
10. [Ad Hoc Group on JPEG Pleno Holography](#)
11. [Ad Hoc Group on JPEG 2000](#)
12. [Ad Hoc Group on JPEG XS](#)
13. [Ad Hoc Group on JPEG XL](#)
14. [Ad Hoc Group on JPEG Reference Software](#)
15. [Ad Hoc Group on JPEG Systems](#)

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"> • Support in completing the section in A.1 (and/or A.13) justification form(s) • Ensure proper interaction between Q5/SG16, Q6/SG16 and SC29/WG1 in order to coordinate joint meetings in January 2022 • Prepare and present various options regarding the JPEG AI final call for proposals to be issued in January 2022
Deliverables	<ul style="list-style-type: none"> • Text for relevant sections in A.1 (and/or A.13)
Meetings	<ul style="list-style-type: none"> • Online AHG meetings with at least one week's notice
How to join	<p>Email reflector: jpeg-itu</p> <p>To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org.</p> <p>The mailing list is open to ITU-T SG16, Q5/16 and Q6/16 experts.</p>

Subgroup	Communication
Mailing list	Moderated
Name	Ad Hoc Group on JPEG Website & 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 • Publish the press release & calling notice • Publish 5th JPEG DNA Workshop and 2nd JPEG NFT Workshop proceedings and publish workshop videos on YouTube • Create mock-up implementation for project descriptions on the frontpage • Update website content for JPEG Systems • Follow up and evaluate the procedures for handling documents • Contact ISO regarding ISO Documents issues • Refine and complete JPEG Operating Manual and assess accessibility • Follow up WG1 content on SC29 website • Proceed with the change of ownership of JPEG Twitter account and initiate request for verified Twitter account
Deliverables	<ul style="list-style-type: none"> • Proposed Updated JPEG Operating Manual
Meetings	Online AHG meetings on the following dates <ul style="list-style-type: none"> • Tuesday 2021-11-23, 09:00-10:00 UTC • Tuesday 2022-01-11, 09:00-10:00 UTC Additional online meetings may be scheduled as required with at least a one week's notice.
How to join	Email reflector: jpeg-website 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 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"> • Continue refining the “JPEG Fake Media Context, Use Cases and Requirements” document • Propose evaluation methodology • Elaborate on trust model • Align with the JPEG NFT and JPEG Systems AHGs • Organize a joint workshop between JPEG NFT and JPEG Fake Media • Engage with stakeholders and encourage them to contribute
Deliverables	<ul style="list-style-type: none"> • Proposed update on “JPEG Fake Media Context, Use Cases and Requirements” document including evaluation methodology • Workshop proceedings
Meetings	Online AHG meetings on the following dates: <ul style="list-style-type: none"> • Tuesday 2021-11-16: 06:00-08:00 UTC • Wednesday 2021-12-15: 14:00-16:00 UTC • Thursday 2022-01-13: 21:00-23:00 UTC 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 .
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Subgroup	Requirements
Mailing list	Public
Name	Ad Hoc Group on JPEG NFT
Chair	Kambiz Homayounfar (kambiz@rayshapersa.ch)
Co-chair	Frederik Temmermans (frederik.temmermans@vub.be)
Mandates/ Objectives	<ul style="list-style-type: none"> • Continue exploring and analyzing the state-of-the-art in NFTs for digital assets especially those that can be represented using JPEG formats • Continue identifying, describing and documenting use cases and requirements for NFTs focused on digital media types and applications relevant to JPEG • Continue identifying and describing 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 and end-user communities • Organize a joint JPEG NFT and JPEG Fake Media workshop prior to the 94th JPEG meeting
Deliverables	<ul style="list-style-type: none"> • Proposed updates to “JPEG NFT context, use cases and requirements” document • Proceedings of the workshop
Meetings	<p>Online AHG meetings on the following dates:</p> <ul style="list-style-type: none"> • Wednesday 2021-11-24: 14:00-15:30 UTC • Thursday 2022-01-13: 14:00-15:30 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-nft</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 Digital Media Storage using DNA
Chair	Marc Antonini (am@i3s.unice.fr)
Co-chair	Touradj Ebrahimi (touradj.ebrahimi@epfl.ch)
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) • Validate (beta test) and extend the JPEG DNA experimentation software

	<p>to simulate an end-to-end image storage pipeline using DNA for future exploration experiments.</p> <ul style="list-style-type: none"> Propose a first set of potential exploration experiments
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 End-to-end simulator for image storage using DNA that includes synthesizer/sequencer Draft version of a list of potential exploration experiments, their description, objectives and deliverables as well as potential contributors
Meetings	Online AHG meetings as determined by the AHG with at least one week's notice
How to join	<p>Email reflector: jpeg-dna</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 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 study (ES4) on compressed domain denoising, real-time foreground extraction and device interoperability. Maintain the JPEG AI quality assessment framework Publish anchors for standard reconstruction and computer vision and image processing tasks Finalize the JPEG AI Common Training and Test Conditions Finalize the JPEG AI Call for Proposals
Deliverables	<ul style="list-style-type: none"> Proposed revision of JPEG AI Common Training and Test Conditions Proposed revision of JPEG AI Call for Proposals Reports on the exploration study 4: on device interoperability, compress domain denoising and real-time foreground extraction.
Meetings	<p>Online AHG meetings on the following dates:</p> <ul style="list-style-type: none"> Wednesday 2021-11-17, 13:00-15:00 UTC Friday 2021-12-17, 13:00-15:00 UTC Wednesday 2022-01-05, 13:00-15:00 UTC <p>Additional online meetings may be scheduled as required with at least one week's notice.</p>
How to join	<p>Email reflector: jpeg-ai</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@decc.uc.pt)
Mandates/ Objectives	<ul style="list-style-type: none"> ● Improve the Common Training and Test Conditions document <ul style="list-style-type: none"> ○ Determine sampling strategy for meshed content and create scripts to perform sampling ○ Define anchor codecs configurations and bitrates ○ Create scripts for subjective evaluation procedures, objective quality and complexity measures ● Perform Exploration Study 5 ● Produce proposal for Final Call for Proposals ● Promote the activity to industry and academia
Deliverables	<ul style="list-style-type: none"> ● Proposed Updated JPEG Pleno Point Cloud Common Training and Test Conditions document ● Scripts for CTTC subjective evaluation procedures, objective quality and complexity measures ● Scripts for sampling of meshed content ● Proposed Final Call for Proposals on JPEG Pleno Point Cloud Coding ● Report on outcomes of Exploration Study 5
Meetings	Online meetings will be scheduled in agreement as determined by the AHG with at least one week's notice.
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	Requirements
Status	Public
Name	Ad Hoc Group on Image Quality Assessment
Chair	Evgeniy Upenik (evgeniy.upenik@huawei.com)
Co-chair	Michela Testolina (michela.testolina@epfl.ch)
Mandates/ Objectives	<ul style="list-style-type: none"> ● Continue reviewing relevant state-of-the-art, notably already available and under development standards and best practices related to objective and subjective image quality assessment ● Continue collecting use cases and requirements for image quality assessment ● Contact relevant experts and stakeholders ● Plan next steps
Deliverables	<ul style="list-style-type: none"> ● Proposed improved image quality assessment state-of-the-art review document ● Proposed improved use cases and requirements document ● Proposed work plan
Meetings	Online AHG meetings on the following date <ul style="list-style-type: none"> ● Thursday 2021-11-18, 13:00-15:00 UTC ● Thursday 2021-12-09, 08:00-10:00 UTC Additional online meetings may be scheduled with at least one week's notice
How to join	E-mail reflector: jpeg-aic

	To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org .
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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.cb.br)
Mandates/ Objectives	<ul style="list-style-type: none"> • Update JPEG Pleno use cases and requirements for light field quality assessment • Study use cases and requirements for learning-based light field coding • Plan a workshop on learning-based light field coding in early 2022
Deliverables	<ul style="list-style-type: none"> • Updated JPEG Pleno use cases and requirements for light field quality assessment • Proposed use cases and requirements for learning-based light field coding • Proposed plan for a workshop on learning-based light field coding in early 2022
Meetings	Online AHG meetings on the following dates: <ul style="list-style-type: none"> • Friday 2021-11-19 • Friday 2021-12-17 • Friday 2022-01-14 The meeting times will be decided by doodle poll. Additional online meetings may be scheduled as determined by the AHG with at least one week's notice.
How to join	Email reflector: jpeg-lightfield 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 Core Experiment 1 as contained in WG1N100029 • Manage and execute Exploration Study 14 as contained in WG1N100031 • Update Common Test Conditions document and associated CTC software • Prepare Verification Model Software for JPEG Pleno Holography by 2021-11-19 • Prepare Working Draft for JPEG Pleno Holography
Deliverables	<ul style="list-style-type: none"> • Report on Core Experiment 1 • Report on Exploration Study 14 • Proposed Updated Common Test Conditions document and associated CTC

	software <ul style="list-style-type: none"> • Verification Model Software for JPEG Pleno Holography • Proposed Working Draft for JPEG Pleno Holography
Meetings	Online AHG meetings on the following dates: <ul style="list-style-type: none"> • Thursday 2021-11-25 • Thursday 2021-12-09 • Thursday 2022-01-13 (2 sessions) The meeting times will be decided by doodle poll. 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 candidate CD of ISO/IEC 15444-2 3ED • Study refactoring of JPX, as currently specified in ISO/IEC 15444-2, as a separate document
Deliverables	<ul style="list-style-type: none"> • HTJ2K GitLab repositories • Candidate CD of ISO/IEC 15444-2 3ED • Report on the potential refactoring of JPX as a separate document
Meetings	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	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 Exploration Study 5 as specified in WG1N100050 • Prepare DAM1 study text for ISO/IEC 21122-2 2ED AMD1 • Prepare a draft of an updated White Paper to describe new Bayer coding tools

	<ul style="list-style-type: none"> • Create a draft CfP document for new coding technologies according to the requirements document WG1N100023 • Collect additional content (for Exploration Study 5)
Deliverables	<ul style="list-style-type: none"> • Results of Exploration Study 5 • DAM1 study text for ISO/IEC 21122-2/AMD1 • Draft of an updated White Paper • Draft CfP for new coding technologies
Meetings	<p>Joint online AHG meetings on the following dates</p> <ul style="list-style-type: none"> • Monday 2021-11-29, 13:00-14:00 UTC Jointly with JPEG XL AHG on HDR <p>Online AHG meetings on the following dates</p> <ul style="list-style-type: none"> • Thursday 2021-11-04, 8:00-9:00 UTC • Thursday 2021-11-25, 8:00-9:00 UTC • Thursday 2021-12-02, 8:00-9:00 UTC • Thursday 2022-01-13, 8:00-11:00 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	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"> • Continue Core Experiment 11 • Perform Exploration Study 12 • Maintenance of reference software • Prepare CD study text of 18181-1 2nd Edition • Prepare draft DOCR on DAM1 of 18181-1/AMD1 • Prepare study text of 18181-1/AMD1 • Prepare website updates
Deliverables	<ul style="list-style-type: none"> • Updated report on CE11 • Report results on ES12 • Proposed Updated reference software • Draft DOCR on DAM1 ballot of 18181-1/AMD1 • Study text of 18181-1/AMD1 • Study text of CD of ISO/IEC 18181-1 2nd Edition
Meetings	<p>Online AHG meetings on the following dates</p> <ul style="list-style-type: none"> • Monday 2021-11-29, 13:00-14:00 UTC Jointly with XS AHG on HDR • Thursday 2021-12-02, 9:00-10:00 UTC on CE 11 <p>Additional online meetings may be scheduled as required with at least a one week's notice</p>
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 .
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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	<p>Email reflector: jpeg-reference</p> <p>To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org.</p>

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"> • Develop JPEG Systems White Paper; include the APP11 marker awareness wrt metadata • Study extensibility of JPEG Snack to address technical issues and to encourage comments from experts • Study how future JUMBF use case and requirements should be drafted • Study JUMBF use as standalone file and registering a media type • Preparing the JUMBF AMD2 CDAM study text • Study reuse of JPEG System file parser software as reference software: determine a subdivision is needed • Collecting use case and requirements for General Multi-Image Structuring (GMIS) • Study GMIS coding efficiencies and promotion of exploration study • Create study text for JLINK FDIS • Study Candidate TR on extensibility principles of the JPEG family of standards • Create Gitlab repository listing marker codes and other values subject to extension currently in use in the JPEG family of standards
Deliverables	<ul style="list-style-type: none"> • Draft of JPEG Systems White Paper • Report on next steps for JPEG Snack and create DIS study text if required • Proposal for future JUMBF use case and requirement documents and first draft if possible

	<ul style="list-style-type: none"> • Report on JUMBF use cases as standalone file • JUMBF AMD2 CDAM study text • Report on JPEG file parser verification suite as reference software • Updated GMIS use cases and requirement study text, and technical options for implementation. • Report on survey of existing solutions of higher coding efficiency with GMIS and design of Call for Participation to gather outside experts to perform further study • Study text for JLINK FDIS • A candidate TR describing the extensibility principles of the JPEG family of standards • A catalogue of marker codes, and other values subject to extension, currently in use in the JPEG family of standards
<p>Meetings</p>	<p>Online AHG meetings on the following dates:</p> <ul style="list-style-type: none"> • Tuesday, 2021-11-02, 14:00 - 15.30 UTC, on JPEG Systems White paper. • Tuesday, 2021-11-16, 13:00 - 14.30 UTC, on JUMBF AMD2 and TR JPEG Extensions • Tuesday, 2021-11-23, 13:00 - 14.30 UTC, on JPEG Snack and JLINK • Tuesday, 2021-11-30, 13:00 - 14.30 UTC, on JUMBF AMD2 updated use cases and requirements, JUMBF AMD2 CDAM text. • Monday, 2021-12-13, 13:00 - 14.30 UTC, on JPEG Snack DIS technical discussions, JLINK and GMIS discussion. • Tuesday, 2021-12-21, 13:00 - 14.30 UTC, on GMIS, and software file parser reference software • Thursday 2022-01-13, 13:00 – 14:00 UTC on 94th JPEG S&I meeting preparation and breakout session scheduling. <p>Additional online meetings may be scheduled as determined by the AHG with at least one week’s notice</p>
<p>How to join</p>	<p>Email reflector: jpeg-systems</p> <p>To subscribe to the reflector, please visit http://listregistration.jpeg.org or in case of problems contact lists@jpeg.org.</p>