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 in 81st JPEG Meeting

SOURCE: WG1 Convenor

PROJECT: All WG1 projects

STATUS: Final

REQUESTED ACTION: Information

DISTRIBUTION: Public

Contact:
ISO/IEC JTC 1/SC29/WG1 Convenor – Prof. Touradj Ebrahimi
EPFL/STI/IEL/GR-EB, Station 11, CH-1015 Lausanne, Switzerland
Tel: +41 21 693 2606, Fax: +41 21 693 7600, E-mail: Touradj.Ebrahimi@epfl.ch
1. **Ad Hoc Group on JPEG XS**
2. **Ad Hoc Group on JPEG XT**
3. **Ad Hoc Group on JPEG Website and LiveLink**
4. **Ad Hoc Group on JPEG Pleno - Light Field**
5. **Ad Hoc Group on JPEG Pleno - Point Clouds**
6. **Ad Hoc Group on JPEG Pleno – Holography**
7. **Ad Hoc Group on High Throughput JPEG 2000 (HTJ2K)**
8. **Ad Hoc Group on JPEG XL**
9. **Ad Hoc Group on Blockchain and Distributed Ledger Technologies**
10. **Ad Hoc Group on JPEG Systems 4-5-6**
11. **Ad Hoc Group on IANA Registrations**
12. **Ad Hoc Group on JPEG reference software**

<table>
<thead>
<tr>
<th>Subgroup</th>
<th>Coding, Test and Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Status</strong></td>
<td>Moderated</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Ad Hoc Group on JPEG XS</td>
</tr>
<tr>
<td><strong>Chair</strong></td>
<td>Antonin Descampe (<a href="mailto:a.descampe@intopix.com">a.descampe@intopix.com</a>)</td>
</tr>
<tr>
<td><strong>Co-chair</strong></td>
<td>Thomas Richter (<a href="mailto:thomas.richter@iis.fraunhofer.de">thomas.richter@iis.fraunhofer.de</a>)</td>
</tr>
<tr>
<td><strong>Mandates/ Objectives</strong></td>
<td></td>
</tr>
</tbody>
</table>
| | ● JPEG XS Part-2  
| | o Review Summary of Voting of DIS ballot when available and prepare DoCR candidate and IS candidate as input documents of the Lisbon meeting  
| | ● JPEG XS Part-4  
| | o Perform Core Experiment on test codestreams as described in WG1N81030  
| | o Finalize JPEG XS Part-4 CD and submit for ballot  
| | o Review Summary of Voting of CD ballot when available and prepare DoCR candidate and DIS candidate as input documents of the Lisbon meeting.  
| | ● JPEG XS Part-5  
| | o Resolve XSM remaining open issues on GitLab: [https://gitlab.com/wg1/jpeg-xsm/issues](https://gitlab.com/wg1/jpeg-xsm/issues)  
| | o Clarify licensing terms for XSM version, a candidate to become reference software  
| | o Prepare CD candidate as input document for the Lisbon meeting  
| | ● Sensor compression  
| | o Execute action items according to timeline described in Core Experiments description document WG1N81020  
| | o Organize, if needed, an expert viewing session in Lisbon with CE results  
| | ● Finalize JPEG XS White Paper |
| Deliverables | ● JPEG XS Part-2 DIS DoCR candidate and IS candidate  
● JPEG XS Part-4 CD DoCR candidate and DIS candidate  
● JPEG XS Part-5 CD candidate  
● Results of Core Experiments 1 on sensor compression  
● Proposal for JPEG XS White paper |
| Meetings | ● Online meeting may be scheduled as required.  
● AHG meeting on January 20th, 2019, to be held in Lisbon (PT). |
| How to join | E-mail reflector: jpeg-xs@jpeg.org  
To subscribe to the reflector, please visit http://jpeg-xs-list.jpeg.org or in case of problems contact lists@jpeg.org. |
| Subgroup | Coding, Test and Quality |
| Status | Moderated |
| Name | Ad Hoc Group on JPEG XT |
| Chair | Thomas Richter (thomas.richter@iis.fraunhofer.de) |
| Co-chair | |
| Mandates/ Objectives | ● JPEG XT Part-1 AMD 1  
  ○ Review Summary of Voting when available  
  ○ Prepare DoCR candidate  
  ○ Prepare study text for 2nd edition of JPEG XT Part 1  
● JPEG XT Part-8 AMD 1  
  ○ Review Summary of Voting when available  
  ○ Prepare DoCR candidate  
  ○ Prepare study text for 2nd edition of JPEG XT Part 8 |
| Deliverables | ● JPEG XT Part-1 draft DoCR  
● JPEG XT Part-1 Study text for 2nd edition  
● JPEG XT Part-8 draft DoCR  
● JPEG XT Part-8 Study text for 2nd edition |
| Meetings | ● Online meeting may be scheduled as required. |
| How to join | E-mail reflector: jpeg-extensions@jpeg.org  
To subscribe to the reflector, please visit http://jpeg-extensions-list.jpeg.org or in case of problems contact lists@jpeg.org. |
| Subgroup | Communication |
| Status | Moderated |
| Name | Ad Hoc Group on JPEG Website and LiveLink |
| Chair | Frederik Temmermans (ftemmerm@etrvub.be) |
| Co-chair | Antonio Pinheiro (pinheiro@ubi.pt) |
| Mandates/ Objectives | ● Finalize document archive transfer  
● Follow up email reflector issues |
- Maintain JPEG website and update content
- Publish updated blockchain white paper
- Publish 2nd blockchain workshop announcement (Lisbon)
- Publish the press release
- Prepare sponsorship proposal
- Propose updates for WG1 structure web page and terms of reference document for inclusion in SC29 Website

**Deliverables**

- Sponsorship proposal
- Proposed WG1 terms of reference document
- Proposed web page for WG1 structure

**Meetings**

**How to join**

E-mail reflector: jpeg-website@jpeg.org

To subscribe to the reflector, please visit http://jpeg-website-list.jpeg.org or in case of problems contact lists@jpeg.org

<table>
<thead>
<tr>
<th>Subgroup</th>
<th>Coding, Test and Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Status</strong></td>
<td>Public</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Ad Hoc Group on JPEG Pleno - Light Field</td>
</tr>
<tr>
<td><strong>Chair</strong></td>
<td>Cristian Perra (<a href="mailto:cperra@ieee.org">cperra@ieee.org</a>)</td>
</tr>
<tr>
<td><strong>Co-chair</strong></td>
<td>Eduardo da Silva (<a href="mailto:eduardo@smt.ufrj.br">eduardo@smt.ufrj.br</a>)</td>
</tr>
</tbody>
</table>
| **Mandates/ Objectives**  | Run exploration studies defined during the 81st JPEG meeting: see document: WG1N81050  
Run core experiments defined during the 81st JPEG meeting: see document: WG1N81051  
Refine file format and codestream syntax  
Maintain and update Verification Model software  
Prepare text of CD for JPEG Pleno Part 2  
Prepare text of WD for JPEG 2000 Part 17 focused on disparity coding |
| **Deliverables**          | JPEG Pleno Exploration Studies 3.0 Report  
JPEG Pleno Core Experiments 5.0 Report  
Text of CD for JPEG Pleno Part 2  
Text of WD for JPEG 2000 Part 17 |
| **Meetings**              | Regular teleconference meeting(s) will be planned after consultation of the JPEG Pleno AhG members;  
AhG Meetings on 2019-1-19 (pm) and 2019-1-20 in Lisbon, Portugal |
| **How to join**           | E-mail reflector: jpeg-pleno@jpeg.org | jpeg-pleno@googlegroups.com |

To subscribe to the reflector, please visit http://jpeg-pleno-list.jpeg.org or in case of problems contact lists@jpeg.org

NOTE: this reflector has moved to Google Groups, all members should re-subscribe! To send to the old reflector please use jpeg-pleno@listserv.vub.ac.be

<table>
<thead>
<tr>
<th>Subgroup</th>
<th>Requirements</th>
</tr>
</thead>
</table>
### Ad Hoc Group on JPEG Pleno - Point Cloud

<table>
<thead>
<tr>
<th>Status</th>
<th>Public</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Ad Hoc Group on JPEG Pleno - Point Cloud</td>
</tr>
<tr>
<td>Chair</td>
<td>Antonio Pinheiro (<a href="mailto:pinheiro@ubi.pt">pinheiro@ubi.pt</a>)</td>
</tr>
<tr>
<td>Co-chair</td>
<td>Stuart Perry (<a href="mailto:stuart.perry@uts.edu.au">stuart.perry@uts.edu.au</a>)</td>
</tr>
</tbody>
</table>
| Mandates/ Objectives | - Identify the potential JPEG scope in the field of Point Cloud coding.  
|              | - Creation of a document on Common Test Conditions.  
|              | - Design and perform exploration studies based on the defined common test conditions:  
|              |   - Assessing existing compression technologies.  
|              |   - Assessing test sets.  
|              |   - Assessing methodologies for subjective evaluation.  
|              |   - Assessing models for objective evaluation. |
| Deliverables | - Draft of Common Test Conditions document.  
|              | - Report on the exploration studies. |
| Meetings    | - AhG meeting in Lisbon on 2019-01-19.  
|              | - Online meetings will be scheduled as required. |
| How to join | E-mail reflector: jpeg-pointcloud@jpeg.org  
|            | To subscribe to the reflector, please visit http://jpeg-pointcloud-list.jpeg.org or in case of problems contact lists@jpeg.org |

### Ad Hoc Group on JPEG Pleno - Holography

<table>
<thead>
<tr>
<th>Status</th>
<th>Public</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Ad Hoc Group on JPEG Pleno - Holography</td>
</tr>
<tr>
<td>Chair</td>
<td>Kwan-Jung Oh (<a href="mailto:kjoh@etri.re.kr">kjoh@etri.re.kr</a>)</td>
</tr>
<tr>
<td>Co-chair</td>
<td>Peter Schelkens (<a href="mailto:Peter.Schelkens@vub.ac.be">Peter.Schelkens@vub.ac.be</a>)</td>
</tr>
</tbody>
</table>
| Mandates/ Objectives | - Prepare text for draft white paper on JPEG Pleno Holography;  
|              | - Manage and execute Exploration Studies 2.0 as contained in WG1N81054;  
|              | - Collect new test data for holographic microscopy/tomography;  
|              | - Perform strategic analysis on holography use cases and potential standardization roadmap. |
| Deliverables | - Draft white paper on JPEG Pleno Holography;  
|              | - Report on Exploration Studies 2.0;  
|              | - New test data. |
| Meetings    | - At least two online meetings will be scheduled after consultation on the E-mail reflector. |
| How to join | E-mail reflector: jpeg-holo@jpeg.org  
|            | To subscribe to the reflector, please visit http://jpeg-holo-list.jpeg.org or in case of problems contact lists@jpeg.org |
### Subgroup
Coding, Test and Quality

#### Status
Public

#### Name
Ad Hoc Group on High Throughput JPEG 2000 (HTJ2K)

#### Chair
Pierre-Anthony Lemieux (pal@sandflow.com)

#### Co-chair
David Taubman (d.taubman@unsw.edu.au)

#### Mandates/ Objectives
- Create study of ISO/IEC 15444-15 DIS text
- Prepare HTJ2K reference software for inclusion in ISO/IEC 15444-5
- Generate HTJ2K conformance codestreams for inclusion in ISO/IEC 15444-4

#### Deliverables
- Study of ISO/IEC 15444-15 DIS text
- HTJ2K Reference software for ISO/IEC 15444-5
- HTJ2K Conformance codestreams for ISO/IEC 15444-4

#### Meetings
- Face to face meeting on 2019-01-20 in Lisbon, Portugal
- Online meetings will be scheduled as required

#### How to join
E-mail reflector: jpeg-htj2k@jpeg.org

In order to subscribe to the mailing list, you simply have to send an (empty) email to jpeg-htj2k@jpeg.org and follow the steps of the e-mail being received.

---

### Subgroup
Requirements

#### Status
Public

#### Name
Ad Hoc Group on JPEG XL

#### Chair
Jan De Cock (jdecock@netflix.com)

#### Co-chair

#### Mandates/ Objectives
- Establish common code base (XLM) as contained in WG1N81076 with editing period ending on 2018-11-08;
- Refine Core experiments as contained in WG1N81073 with a preparation period ending on 2018-11-15;
- Refine Exploration Studies as contained in WG1N81074 with a preparation period ending on 2018-11-15;
- Perform core experiments and exploration studies;
- Produce a JPEG XL proposed Working Draft by 2018-11-29;
- Produce a study text for JPEG XL CD
- Create a proposed improved version of the JPEG XL requirements.

#### Deliverables
- XLM software by 2018-11-08
- Core experiments description document by 2018-11-15
- Exploration studies description document by 2018-11-15
- JPEG XL proposed Working Draft by 2018-11-29
- Study text of JPEG XL Committee Draft
- Proposed draft of JPEG XL requirements
- Report on exploration studies and core experiments

#### Meetings
- AHG meeting in Lisbon on 2019-01-19 and 2019-01-20
- Teleconference meeting(s) will be scheduled when appropriate and after
## Ad Hoc Group on Blockchain and Distributed Ledger Technologies

**Chair:** Stephen Swift ([kalmantech@yahoo.com](mailto:kalmantech@yahoo.com))  
**Co-chair:** Frederik Temmermans ([flemerm@etrvub.be](mailto:flemerm@etrvub.be))

### Mandates/ Objectives
- Finish the updated white paper within approved editing period
- Publish the updated white paper and disseminate
- Improve the whitepaper notably by including a list of use cases.
- Prepare workshop on media blockchain in Lisbon
  - Invite speakers and define the workshop program
  - Coordinate with the webmaster to publish announcement on jpeg.org

### Deliverables
- Updated white paper
- Propose revision of white paper including use cases
- 2nd workshop announcement

### Meetings
Online meeting(s) may be scheduled as required.

## Ad Hoc Group on JPEG Systems 4-5-6

**Chair:** Andy Kuzma ([andy.kuzma@intel.com](mailto:andy.kuzma@intel.com))  
**Co-chair:** Frederik Temmermans ([flemerm@etrvub.be](mailto:flemerm@etrvub.be))

### Mandates/ Objectives
- Complete the CD text for JPEG Systems 19566 Part 4 within the editing period ending on 2018-11-15
- Develop a proposal incorporate the functionality of JPEG 360 Metadata to extend the functionality to JPEG codecs.
- Develop a metadata proposal in response to the JPEG Pleno Light Field requirements document WGI81057.
- Determine the industry interest to add signalling for other 360 projection formats.
- Review current use cases and requirements related to the Image Integrity and update, if needed.
- Develop the Image Integrity structure to be used within the P&S framework.
- Disseminate JPEG Systems activities.
- Provide updated content for JPEG Website to JPEG Webmaster.
- Evaluate JPSearch Part 6 and make a decision regarding (dis)continuation.

**Deliverables**

- JPEG Systems 19566 Part 4 text submitted for ballot with results expected at 82nd JPEG meeting.
- A proposal to extend metadata functionality for JPEG images.
- Report on industry interest for signalling additional 360 projections, and summarize results to JPEG Requirements.
- Updated Image Integrity use cases and requirements document, if needed.
- Input document on Image Integrity technical proposal.
- Updated content for JPEG Website.
- Guidance to WG1 regarding JPSearch Part 6 (dis)continuation.
- Overview of dissemination activities.

**Meetings**

- AhG online meeting on 3PM (CET) 2018-11-12 for final review of CD text of Part 4, and other items as agreed.
- AhG online meeting 3PM (CET) 2018-12-13 to review progress on AhG mandates.
- AhG online meeting 3PM (CET) 2019-01-08 to review progress on AhG mandates.
- Other online interim meetings as determined by the AhG.

**How to join**

E-mail reflector: jpeg-systems@jpeg.org

To subscribe to the reflector, please visit http://jpeg-systems-list.jpeg.org or in case of problems contact lists@jpeg.org.

<table>
<thead>
<tr>
<th>Subgroup</th>
<th>Systems &amp; Integration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status</td>
<td>Public</td>
</tr>
<tr>
<td>Name</td>
<td>Ad Hoc Group on IANA Registrations</td>
</tr>
<tr>
<td>Chair</td>
<td>Gary Sullivan (<a href="mailto:garysull@microsoft.com">garysull@microsoft.com</a>)</td>
</tr>
<tr>
<td>Co-chair</td>
<td>Pierre-Anthony Lemieux (<a href="mailto:pal@sandflow.com">pal@sandflow.com</a>)</td>
</tr>
</tbody>
</table>

**Mandates/ Objectives**

- Submit to IANA the final media type registrations defined in the following:
  Media type: image/jxr
  Published standards: Rec. ITU-T T.832 (08/2016, with Erratum 1 03/2017) and ISO/IEC 29199-2:2012/Amd.1:2017

- Submit to IANA the provisional media type registrations defined in the following:
  Media types: image/jxrA and image/jxrS

  Media types: image/jph and image/jphc
  Draft standard: ISO/IEC DIS 15444-15

  Media types: image/hej2k and image/hsj2
  Draft standard: ISO/IEC DIS 15444-16

  Media types: image/jxs, image/jksi and image/jxss
### Deliverables
- Media type registrations for the submissions above.

### Meetings

### How to join
E-mail reflector: jpeg-iana@jpeg.org | jpeg-iana@googlegroups.com

To subscribe to the reflector, please visit [http://jpeg-iana-list.jpeg.org](http://jpeg-iana-list.jpeg.org) or in case of problems contact lists@jpeg.org

### Subgroup
Coding, Test and Quality

### Status
Moderated

### Name
Ad Hoc Group on JPEG reference software

### Chair
Thomas Richter (thomas.richter@iis.fraunhofer.de)

### Co-chair
Gary Sullivan (garysull@microsoft.com)

### Mandates/ Objectives
- Produce proposed DOCR on DIS ballot
- Produce Study Text for IS
- Update the reference software implementations as needed

### Deliverables
- Proposed DOCR on DIS ballot
- Study text for IS
- Updated reference software implementations

### Meetings

### How to join
E-mail reflector: jpeg-reference@jpeg.org

To subscribe to the reflector, please visit [http://jpeg-reference-list.jpeg.org](http://jpeg-reference-list.jpeg.org) or in case of problems contact lists@jpeg.org