**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

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| **TITLE:** | List of AhGs established during 80th JPEG Meeting |
| **SOURCE:** | WG1 Convenor |
| **PROJECT:** | All WG1 projects |
| **STATUS:** | Final |
| **REQUESTED ACTION:** | Forward to SC29 Secretariat for appropriate action |
| **DISTRIBUTION:** | Public |

**Contact:**
ISO/IEC JTC 1/SC29/WG1 Convenor – Prof. Touradj Ebrahimi
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| Subgroup | Coding, Test and Quality |
|---|---|
| Status | Moderated |
| Name | Ad Hoc Group on JPEG XS |
| Chair | Antonin Descampe (a.descampe@intopix.com) |
| Co-chair | Joachim Keinert (joachim.keinert@iis.fraunhofer.de) |
| Mandates/ Objectives | <ul><li>XSM Test Model and SW tools<ul><li>Fix following issues<ul><li>Decoding of image whose height is not divisible by precinct height</li><li>Decoding sign bits of "bogus coefficients"</li></ul></li><li>Update XSM from floating point quantizer to integer-based quantizer</li><li>Update config files for 3-components profiles, according to DIS Part-2</li><li>Evaluate necessary changes to support 4 components and monochrome colour format</li><li>Update Buffer Model Checker according to changes made during 80th WG1 meeting<ul><li>Support for 4 colour components and monochrome colour format</li><li>Update profile values and names</li></ul></li></ul></li><li>Final editing of JPEG XS Part-2 DIS (wg1n80025) and upload for ballot</li><li>Final editing of JPEG XS Part-2 CD DOCR (wg1n80026)</li><li>Final editing of JPEG XS Part-3 CD (wg1n80022) and upload for ballot</li><li>Review JPEG XS Part-4 WD (wg1n80039) and produce CD candidate<ul><li>Collect test images and check copyright licenses</li><li>Create python scripts</li><li>Generate codestreams</li><li>Update text</li></ul></li><li>Review JPEG XS Part-5 WD (wg1n80040) and produce CD candidate<ul><li>Discuss possible codebases and timeline</li></ul></li><li>Sensor compression<ul><li>Collect Raw-Bayer data</li><li>Further investigate Raw-Bayer evaluation methodologies and propose a</li></ul></li></ul> |

corresponding SW workflow
- ○ Investigate potential additional anchors
- ○ Make a preliminary evaluation of the anchors defined in C&Q report wg1n80010
- ○ Propose timeline for adding sensor compression support in JPEG XS
- ● Propose a draft for JPEG XS white paper

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| **Deliverables** | ● Final DIS text for JPEG XS Part-2 <br> ● Final DOCR for JPEG XS Part-2 CD <br> ● Final CD text for JPEG XS Part-3 <br> ● CD candidate for JPEG XS Part-4 <br> ● CD candidate for JPEG XS Part-5 <br> ● Input contributions related to sensor compression evaluation methodology and workflow <br> ● Updated XSM Test Model according to mandates <br> ● Draft white paper for JPEG XS |
| **Meetings** | ● Online meeting may be scheduled as required. <br> ● AhG meeting on October 14th, 2018, to be held in Vancouver (CA). |
| **How to join** | E-mail reflector: jpeg-xs@jpeg.org <br><br> To subscribe to the reflector, please visit http://jpeg-xs-list.jpeg.org or in case of problems contact lists@jpeg.org. |

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| **Subgroup** | Communication |
| **Status** | Moderated |
| **Name** | Ad Hoc Group on JPEG Website and LiveLink |
| **Chair** | Frederik Temmermans (ftemmerm@etrovub.be) |
| **Co-chair** | Antonio Pinheiro (pinheiro@ubi.pt) |
| **Mandates/ Objectives** | ● Finalise document archive transfer <br> ● Update content on the JPEG website <br> ● Website maintenance <br> ● Publish blockchain white paper <br> ● Publish blockchain workshop announcement <br> ● Publish JPEG XL CfP additional information <br> ● Publish the press release |
| **Deliverables** | |
| **Meetings** | None |

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

| Subgroup | Coding, Test and Quality |
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| Status | Public |
| Name | Ad Hoc Group on JPEG Pleno - Light Field |
| Chair | Zahir Alpaslan (zahir@ostendo.com) |
| Co-chair | Cristian Perra (cperra@ieee.org) |
| Mandates/ Objectives | ● Run exploration studies defined during the 80th JPEG meeting: see document: "wg1n80029"; <br> ● Run core experiments defined during the 80th JPEG meeting: see document: "wg1n80030" <br> ● Cross check results for above experiments; <br> ● Prepare text of WD3.0 for JPEG PLENO Part 2. |
| Deliverables | ● JPEG Pleno Exploration Studies 2.0 Report; <br> ● JPEG Pleno Core Experiments 4.0 Report; <br> ● Texts of WD2.0 for JPEG PLENO Part 1 and Part 2. <br> ● Proposed text of WD3.0 for JPEG PLENO Part 2 |
| Meetings | ● Regular teleconference meeting(s) will be held when appropriate and after consultation of the JPEG Pleno AHG members and eventual additional test labs; <br> ● AHG Meetings on 2018-10-13 and 2018-10-14 in Vancouver, Canada. |
| How to join | E-mail reflector: jpeg-pleno@jpeg.org <br><br> To subscribe to the reflector, please visit http://jpeg-pleno-list.jpeg.org or in case of problems contact lists@jpeg.org |

| Subgroup | Requirements |
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| Status | Public |
| Name | Ad Hoc Group on JPEG Pleno - Point Clouds |
| Chair | Antonio Pinheiro (pinheiro@ubi.pt) |
| Co-chair | Stuart Perry (stuart.perry@uts.edu.au) |
| Mandates/ Objectives | ● Creation of a new document on Common Test Conditions. <br> ● Subjective evaluation procedure definition and testing to determine: <br>    ○ A test set that represents various aspects of Point Clouds (Objects, Landscapes, Computer generated) <br>    ○ Sensitivity of subjective and objective quality of the test set to current different codecs <br>    ○ Sensitivity of the test set to the displaying method (PC/Surface |

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<tr><td></td><td>Reconstruction, 2D/3D/headset, texture/geometry only, etc.).<br>● Further monitoring of objective quality assessment models.<br>● Review the "Use cases and Requirements" document in case an update is required.<br>● Final Review of the current draft of the "Overview of Point Cloud technology" document.</td></tr>
<tr><td>**Deliverables**</td><td>● Draft of Common Test Conditions document.<br>● Improve the Use Cases and Requirements document in the case that an update is required.<br>● Final document of the "Overview of Point Cloud technology".</td></tr>
<tr><td>**Meetings**</td><td>● AhG meeting in Vancouver on 2018-10-13.<br>● Online meetings will be scheduled as required.</td></tr>
<tr><td>**How to join**</td><td>E-mail reflector: jpeg-pointcloud@jpeg.org<br><br>To subscribe to the reflector, please visit http://jpeg-pointcloud-list.jpeg.org or in case of problems contact lists@jpeg.org</td></tr>
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| Subgroup | Coding, test and quality |
|---|---|
| **Status** | Public |
| **Name** | Ad Hoc Group on JPEG Pleno - Holography |
| **Chair** | Kwan-Jung Oh (kjoh@etri.re.kr) |
| **Co-chair** | Peter Schelkens (Peter.Schelkens@vub.ac.be) |
| **Mandates/ Objectives** | ● Produce draft of "Overview of Holography V3.0";<br>● Manage and execute "Exploration Studies 1.0" (WG1N80041);<br>● Continue efforts to collect new test data;<br>● Attract additional interest from industry and academia. |
| **Deliverables** | ● Updated "Overview of Holography" document<br>● Report on Exploration Studies<br>● 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<br><br>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) |
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| Co-chair | David Taubman (d.taubman@unsw.edu.au) |
| Mandates/ Objectives | ● process ISO/IEC 15444-15 CD ballot comments<br>● prepare study document of ISO/IEC 15444-15 post-ballot CD<br>● process ISO/IEC 15444-1 DAM1 ballot comments<br>● study potential additional profiles of ISO/IEC 15444-15<br>● study conformance codestreams and reference software for ISO/IEC 15444-15 |
| Deliverables | ● DOCR for ISO/IEC 15444-15 CD ballot<br>● Post-ballot document of ISO/IEC 15444-15 CD<br>● DOCR for ISO/IEC 15444-1 DAM1 ballot<br>● report on potential additional profiles of ISO/IEC 15444-15<br>● report on conformance codestreams and references software for ISO/IEC 15444-15 |
| Meetings | ● Face to face meeting on 2018-10-14<br>● Online meetings will be scheduled as required. |
| How to join | E-mail reflector: jpeg-htj2k@jpeg.org<br><br>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 | Systems & Integration |
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| Status | Public |
| Name | Ad Hoc Group on 360 Metadata |
| Chair | Andy Kuzma (andy.kuzma@intel.com) |
| Co-chairs | Junichi Hara (waverz@jp.ricoh.com) |
| Mandates/ Objectives | ● Finalise DIS text of ISO/IEC 19566-6 by 2018-08-02, including coordinating with SC29 Secretariat wrt text formatting;<br>● Finalise DOCR text for CD of ISO/IEC 19566-6 by 2018-08-02;<br>● Coordinate with JPEG Systems Part 5 DIS text release;<br>● Collaborate with CIPA on use cases and requirements for JPEG 360 multi-image files; |
| Deliverables | ● DIS of ISO/IEC 19566-6 by 2018-08-02;<br>● DOCR for CD of ISO/IEC 19566-6 by 2018-08-02;<br>● Input proposal document for 81st JPEG meeting based on discussions with CIPA and JPEG 360. |
| Meetings | ● AhG online meetings on 2018-08-30, 3 PM CEST, and 2018-09-27, 3PM CEST with Privacy & Security;<br>● AhG online meetings to review of DIS revisions as progressing towards final text;<br>● Other online interim meetings as determined by the AhG.<br>● AhG meeting in Vancouver on 2018-10-13 and 2018-10-14. |

| How to join | E-mail reflector: jpeg-360@jpeg.org |
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| | To subscribe to the reflector, please visit http://jpeg-360-list.jpeg.org  or in case of problems contact lists@jpeg.org |

| Subgroup | Coding, Test and Quality |
|---|---|
| Status | Public |
| Name | Ad Hoc Group on Study of 360-degree image projection formats |
| Chair | Oh-Jin Kwon (ojkwon@sejong.ac.kr) |
| Co-chairs | Junichi Hara (waverz@jp.ricoh.com) |
| Mandates/ Objectives | ● Disseminate this AHG activities to interested parties both inside and outside of JPEG;<br>● Explore various projection formats for 360-degree images;<br>● Collect test data for 360-degree image evaluations;<br>● Study image quality evaluation metrics & procedures for 360-degree images. |
| Deliverables | ● Report on the result of the evaluations for the projection formats;<br>● Test data for 360-degree image evaluations. |
| Meetings | Online meetings will be scheduled as required. |
| How to join | E-mail reflector: jpeg-360@jpeg.org<br><br>To subscribe to the reflector, please visit http://jpeg-360-list.jpeg.org  or in case of problems contact lists@jpeg.org |

| Subgroup | Requirements |
|---|---|
| Status | Public |
| Name | Ad Hoc Group on Next-Generation Image Coding Standard |
| Chair | Jan De Cock (jdecock@netflix.com) |
| Co-chair | Seungcheol Choi (choisc@sju.ac.kr) |
| Mandates/ Objectives | ● Organize and run subjective quality assessments for CfP submissions<br>● Provide performance assessment results for CfP submissions to Vancouver meeting |
| Deliverables | ● Report on performance assessment of CfP submissions |
| Meetings | ● AHG meeting in Vancouver on 2018-10-13 and 2018-10-14.<br>● Teleconference meeting(s) will be scheduled when appropriate and after consultation of the members of the AHG |

| **How to join** | E-mail reflector:   jpeg-xl@jpeg.org |
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| | To subscribe to the reflector, please visit http://jpeg-xl-list.jpeg.org or in case of problems contact lists@jpeg.org |

| **Subgroup** | Requirements |
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| **Status** | Public |
| **Name** | Ad Hoc Group on Blockchain |
| **Chair** | Deepayan Bhowmik (d.bhowmik@ieee.org) |
| **Co-chair** | Frederik Temmermans (ftemmerm@etrovub.be) |
| **Mandates/ Objectives** | <ul><li>Finish the white paper by editing period 2018-07-20</li><li>Distribute the white paper and disseminate</li><li>Prepare workshop on blockchain in Vancouver<ul><li>Invite speakers</li><li>Finalize the workshop agenda</li><li>Coordinate with the webmaster to publish announcement on jpeg.org</li></ul></li></ul> |
| **Deliverables** | <ul><li>Finalised white paper</li><li>Workshop announcement</li></ul> |
| **Meetings** | Online meeting(s) may be scheduled as required. |
| **How to join** | E-mail reflector: jpeg-blockchain@jpeg.org<br><br>To subscribe to the reflector, please visit http://jpeg-blockchain-list.jpeg.org or in case of problems contact lists@jpeg.org. |

| **Subgroup** | Systems & Integration |
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| **Status** | Moderated |
| **Name** | Ad Hoc Group on JPEG Privacy & Security, Metadata |
| **Chair** | Frederik Temmermans (ftemmerm@etrovub.be) |
| **Co-chair** | Takaaki Ishikawa (takaxp@ieee.org) |
| **Mandates/ Objectives** | <ul><li>Complete editing DIS text of ISO/IEC 19566-5 by 2018-08-02, including coordinating with SC29 Secretariat wrt text formatting;</li><li>Finalise DOCR text for CD of ISO/IEC 19566-5 by 2018-08-02;</li><li>Coordinate with JPEG 360 AhG;</li><li>Finalize CD text of ISO/IEC 19566-4;</li><li>Disseminate JPEG Privacy and Security;</li><li>Provide updated content for JPEG Website on JUMBF to webmaster.</li></ul> |

| Deliverables | <ul><li>DIS of ISO/IEC 19566-5;</li><li>DOCR text for CD of ISO/IEC 19566-5;</li><li>CD candidate text for ISO/IEC 19566-4;</li><li>Overview of dissemination activities;</li><li>Updated content for JPEG Website on JPEG 360.</li></ul> |
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| Meetings | <ul><li>AhG online meetings to review of DIS revisions as progressing towards final text;</li><li>AhG online meetings on 2018-08-30, 3 PM CEST, and 2018-09-27, 3PM CEST with 360 Metadata;</li><li>Other online interim meetings as determined by the AhG;</li><li>AHG meeting in Vancouver on 2018-10-14.</li></ul> |
| How to join | E-mail reflector: jpeg-privacy@jpeg.org <br><br> To subscribe to the reflector, please visit http://jpeg-privacy-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 | <ul><li>Update the reference software implementations as needed</li></ul> |
| Deliverables | <ul><li>Updated reference software implementations</li></ul> |
| Meetings | <ul><li>Online meeting may be scheduled as required.</li></ul> |
| How to join | E-mail reflector: jpeg-reference@jpeg.org <br><br> To subscribe to the reflector, please visit http://jpeg-reference-list.jpeg.org or in case of problems contact lists@jpeg.org |

| Subgroup | Systems & Integration |
|---|---|
| Status | Public |
| Name | Ad Hoc Group on ISO/IEC 15444-16 (Encapsulation of J2K Images into ISO/IEC 23008-12) |
| Chair | Pierre-Anthony Lemieux (pal@sandflow.com) |
| Co-chair | David Singer (singer@apple.com) |
| Mandates/ Objectives | <ul><li>Process comments on CD ballot</li></ul> |
| Deliverables | <ul><li>DOCR for CD ballot</li><li>Study text for DIS</li></ul> |

| Meetings | Online meeting(s) may be scheduled as required. |
|---|---|
| How to join | E-mail reflector: jpeg-heif@jpeg.org<br><br>To subscribe to the reflector, please visit http://jpeg-hief-list.jpeg.org or in case of problems contact lists@jpeg.org |