**VSF Activity Group - Authorization Form**

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| **Activity Group No.: (2020-2)**  **Title: TR-01: JPEG-XS**  **Chair: John Dale, Jean Baptiste Lorent, John Mailhot**  **Address:**  **City: Phone: State: Fax: Zip: Email:** | | | | | | | | |
| **Objectives: New TR, with interoperable profiles for media connectivity utilizing JPEG-XS coding** | | | | | | | | |
| **Tasks:**  **Consider both WAN and LAN applications for JPEG-XS coding**  **Develop interoperable profiles for JPEG-XS coded media for 2K and 4K applications and including HDR and WCG, using as much as possible existing standards**  **Create a 2022-2/MPEG2TS TR/Interop point(s) utilizing JPEG-XS as the media codec**  **Create a 2110-22 Interop point(s) utilizing JPEG-XS as the media codec**  **Organize base level interop workshop/VidTrans Demonstration** | | | | | | | | |
| **Meeting Schedule: Twice per month, or monthly (might have separate document editing team meet every week)**  **Draft Output Due: Prior to VidTrans 2020 – create draft (this might be aggressive)**  **Completion Date: IBC 2020** | | | | | | | | |
| **Form of Output:** | **X** | **Report to VSF**  **Recommendation to Standards Organization(s)**  **Article or Conference Presentation**  **Other (please state)** | | | | | | |
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| **Liaisons:** |  | **SMPTE** |  | **ATIS** |  | **ATSC** |  | **Other (please state)** |
| **References:**   **TR-01:2013, TR-01:2018** | | | | | | | | |
| **Interested Parties:**   **Media Links, IntoPix, Evertz, ESPN, GVG, Net Insight, Nevion, Barco, Comprimato, Sumavision, Imagine** | | | | | | | | |
| **Resources required:**   **CC Bridge** | | | | | | | | |
| **Date written/revised: Nov 5, 2019** | | | | | | **Board of Directors approval date: January 15, 2020** | | |

**Activity Group Evaluation Criteria**

**1. Potential for use** – Assess the reason for the effort. State reasons this activity supports the objectives of the VSF.

**Follow up on JPEG coding progression, JPEG2000/TR-01 was very well received by the industry, expectation is that JPEG-XS will also be well received**

1. **Other documents** – Before a proposal is approved, the proponents shall state that similar activity is not under consideration in other Activity Groups. Is there any completed work which has already addressed the issue (Prior Art)?

The ITU has been working on several standard documents for JPEG-XS over MPEG2TS:

Text of ISO/IEC 13818-1:201x (7th edition) PDAM1 Carriage of associated CMAF boxes for audio-visual elementary streams and JPEG XS in MPEG-2 TS

Recommendation ITU-T H.222.0 (2018) – Amendment 1 11/19 Carriage of JPEG XS in MPEG-2

TS

Also the IETF has a draft RFC for JPEG-XS over RTP

RTP Payload Format for ISO/IEC 21122 (JPEG XS) draft-lugan-payload-rtp-jpegxs-01

SMPTE 2110-22 with JPEG-XS – although some additional work in this group which defines constraints on JPEG-XS for the intended use case, and how specifically it should be signaled in the SDP, is required.

1. **Public interest** – There shall be no evidence that the work of the Activity Group is contrary to the public interest.

WAN community is actively pursuing JPEG-XS applications over MPEG2TS over IP, this is in no way contrary to public interest

1. **Technical soundness** – There shall be evidence of technical adequacy and feasibility.

1. **Resource review** – The proponent(s) shall provide an assessment of the required resources to complete the

proposed Activity Group effort. Determine if anticipated results warrant resource expenditure. The proponent(s) shall also provide a timeline with proposed deliverables and dates for output from the group.

Aside from VSF member time dedicated, resources are minimal. Telephone conference bridges, email group lists, etc.

If the team decides on an actual interop workshop, additional resources may be required; common file storage for file exchange, actual workshop space, systems work to connect devices and monitor outputs

1. **Concurrence and support** – There is significant support from customers and/or vendors, and carriers to undertake the activity.

**Note** - Testing may be done, subject to concurrence of interested parties. Any proposal involving testing shall describe in writing how such testing is to be conducted and how results are to be quantified.

# VSF Activity Group Functions between Meetings

1. Conference calls are anticipated at least once a month to move the topic forward between

Face-to-Face meetings

* 1. If no conference calls occur between meetings, the topic area will be deactivated by the VSF board upon being notified of this fact.

1. Activity Group conference calls will be monitored by at least one VSF board member to assess AG status

1. The Technical Moderator will attend as many of the conference calls as feasible
   1. The Technical Moderator is not responsible for initiating these calls
   2. The Technical Moderator may interact with the AG chair between calls as needed

1. Conference call times may be posted on the VSF website or in meeting minutes.

* 1. Conference calls should be scheduled at least one week in advance
  2. Formal agendas are not required but meeting minutes would be useful

1. VSF will reimburse individuals or organizations for the costs incurred in supplying conference call bridges, if appropriate documentation of charges are supplied to the VSF

Operations Manager – Bob Ruhl (bob.ruhl1@verizon.net)

* 1. It is appreciated if conference bridges are donated. In return, donors will be publicly recognized for having done so at VSF meetings and at the VidTrans show.

Note: All voting members must agree in writing that their companies will sign IP statements prior to completion of VSF Activity Group work, or they cannot participate in the work effort.

1/14/2020

JD