



## ***Video Services Forum, Inc. News Letter***

Date: 8/18/2021

Issue #: 2021 – 1

The VSF Board feels it is important to keep you informed about what is going on within the VSF.

### **Upcoming Meetings & Events:**

**The VSF/SVG TranSport Webinar is planned for Sept 22-23** The VSF will make this as much like the in-person events as possible with live introductions, live Q&A and some great presentations. This year, the meeting series will be open to all VSF members and the general public at no charge. To register please go to [www.vsf.tv](http://www.vsf.tv)

**VidTrans2022 Annual Technical Conference and Exposition** is planned for March 1–3, 2022 at the Marina del Rey Marriott, Los Angeles, CA, USA. Registration will be open in mid-October.

### **Joint Task-Force Networked Media Update:**

The Joint-Task Force - Networked Media (JT-NM) was formed to foster discussion among subject-matter experts, and to drive the development of an interoperable network-based infrastructure for live media production, encompassing file-based workflows. It brings together broadcasters, manufacturers, standards bodies and trade associations. The JT-NM participants consist of the Advanced Media Workflow Association (AMWA), the European Broadcasting Union (EBU), the Society of Motion Picture and Television Engineers (SMPTE) and the Video Services Forum (VSF).

The JT-NM Tested program held a self-testing event during the spring of 2020. The self-testing element asked participants to perform their own tests, following the test plan developed by the JT-NM Experts Group. The self-tested results along with the JT-NM Test Plans are available for download here as well as the self-tested results for NMOS Controllers. [https://www.jt-nm.org/jt-nm\\_tested/](https://www.jt-nm.org/jt-nm_tested/)

Key people are working hard to bring the next JT-NM Tested event to the next level. In particular:

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- Willem Vermost, our ST 2110 testing lead is driving an RP 2110-25 initiative in SMPTE that aims at aligning test and measurement methodologies and vocabularies for ST 2110
- EBU is driving the ST 2110 PICS project in SMPTE that will serve as a basis for updated JT-NM Tested framework
- AMWA has started a project of extending the NMOS Test Tool to include the support for NMOS controllers.

The aim is to have the next round of JT-NM Tested events when these three projects are complete and work published. The hope is that this helps evaluate what you may expect from the next testing round!

### **Activity Group Updates**

Activity Groups (AG) supply input and expertise to various industry standards bodies on behalf of the VSF. These groups operate under the IPR guidelines of the Video Services Forum. These are some of the topics that VSF Activity Groups are actively addressing:

#### **J2K-ULL Activity Group**

The VSF J2K Activity Group completed the second phase of its work during the 2Q 2018, and issued a Technical Recommendation on June 5, 2018 entitled "TR-01:2018 Transport of JPEG 2000 Broadcast Profile video in MPEG-2 TS over IP".

The work of the J2K ULL Activity Group focused developing new TRs that address utilization of JPEG XS coding of typical broadcast format contribution video signals along with associated audio and ancillary data signals for WAN/LAN applications with ST 2022-2 IP Encapsulation (TR-07) and with ST 2110-22 IP Encapsulation (TR-08).

TR-08, "Transport of JPEG XS Video in ST 2110 22" and TR-07, "Transport of JPEG XS Video in MPEG-2 TS over IP" were approved by the VSF Board on June 9, 2021 and have been posted on here: [https://vsf.tv/technical\\_recommendations.shtml](https://vsf.tv/technical_recommendations.shtml)

[https://vsf.tv/J2K\\_Activity\\_Group.shtml](https://vsf.tv/J2K_Activity_Group.shtml)

***Chair: John Dale III-Media Links***

There will be upcoming work including a file exchange for interoperability purposes for both TR-07 & TR-08. This work will kick off in September. If you would like to participate, please contact the Chair of the J2K Technical Recommendation Group listed above, or the VSF Operations Manager.

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### **Reliable Internet Stream Transport "RIST" Activity Group**

The RIST project was launched specifically to address the lack of compatibility between devices, and to define a set of interoperability points through the use of existing or new standards and recommendations. To date, two open specifications have been produced: TR-06-1 (RIST Simple Profile), first released in 2018, defines the basic ARQ (Automatic Repeat Query) technology used to recover lost packets. It was updated in June, 2020 to include an optional "RTT Echo" message that streamlines the process of configuring packet buffers.

TR-06-2 (RIST Main Profile), released in 2020, defines additional functions required for commercial applications, including stream encryption, sender/receiver authentication, in-band data tunneling, and bandwidth optimization. The RIST AG has also developed a set of Interoperability Levels to support widespread adoption of the Main Profile. A new document describing these levels is with the VSF board for approval and should be released in the near future.

Work continues within the RIST AG towards developing further RIST specifications that include additional features. <https://vsf.tv/RIST.shtml>

***Co-Chairs: Rick Ackermans-CBS & Wes Simpson-Telecom Product Consulting***

### **SMPTE ST 2110 over WAN Activity Group**

Formed September 2018. As ST 2110 takes off for use in studio facilities, there is an emerging requirement to long-haul these IP flows over Wide Area Networks. In doing this, there are issues that arise in both the media data plane and the control plane that will not be present in the Studio/Campus environment that need to be addressed in a common manner to allow seamless operation of multi-campus environments. The specific tasks of this group are detailed in the Activity Group Authorization Form.

[https://vsf.tv/SMPTE\\_ST\\_2110\\_over\\_WAN.shtml](https://vsf.tv/SMPTE_ST_2110_over_WAN.shtml).

Phase 1 of this work is in final review and is aiming to be draft published in time for NAB 2021.

***Chair: Andy Rayner-Nevion***

### **Ground-Cloud-Cloud-Ground (GCCG) Activity Group**

Formed April 20, 2020. The GCCG activity group is focused on the application space of live content transit and interchange between ground-based and cloud-based operations. The group collected and organized user requirements, and then focused on identifying common operating points. This group recognizes the work of the 2110-over-WAN and JPEG-XS working groups as forming a core solution for ground-to-cloud and cloud-to-ground transport links, so within this working group focus has shifted to addressing the within-a-cloud communication use case – establishing timing and transport models which can layer on top of cloud-provider-specific inter-instance transports. The goal of this work is to enable multi-vendor interoperation at the signal level within a cloud-

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hosted workspace. The original tasks of this group are detailed in the Activity Group Authorization Form.

<https://vsf.tv/Ground-Cloud-Cloud-Ground.shtml>

**Co-Chairs:** John Mailhot-Imagine Communications & Andy Rayner-Nevion

### **Internet Protocol Media Experience (IPMX) Activity Group**

Formed April 24, 2020. The IPMX activity group will collect and organize user requirements and work towards establishing a common technical approach such that multi-vendor interoperability is possible. The specific tasks of this group are detailed in the Activity Group Authorization Form.

[https://vsf.tv/Internet\\_Protocol\\_Media\\_Experience.shtml](https://vsf.tv/Internet_Protocol_Media_Experience.shtml)

**Co-Chairs:** Jean Lapierre-Matrox & Jack Douglass-PacketStorm Communications

Note: VSF members are welcome to join Activity Groups by contacting Bob Ruhl (bob.ruhl1@verizon.net).

**Presentations Database** was established during the 2Q2014. This database is provided as a tool to VSF members to easily locate past presentations. Use the sort and search features to find presentations by topic, presenter name, etc.

<http://www.videoservicesforum.org/presentations/index.shtml>

### **VSF Directors and Officers:**

The current Board is shown below with their term expiration dates. VSF Board Members are elected by VSF Members during the annual VidTrans Conference and Exposition.

| <b>Director</b> | <b>Company</b>         | <b>Term Expires</b> |
|-----------------|------------------------|---------------------|
| John Mailhot    | Imagine Communications | 2022                |
| David Robison   | Century Link           | 2022                |
| Larry Sugarman  | Verizon                | 2022                |
| Keith Goldberg  | Walt Disney Television | 2022                |
| Thomas Edwards  | Amazon Web Services    | 2022                |
| Scott Beckett   | AT&T                   | 2023                |
| Rick Ackermans  | CBS                    | 2023                |
| John Dale       | Media Links            | 2023                |
| Andy Rayner     | Nevion                 | 2023                |

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The following VSF Officers were elected by the VSF Board for two-year terms, which expire February 2023.

|                            |                 |                   |      |
|----------------------------|-----------------|-------------------|------|
| <b>President</b>           | Richard Friedel | FOX               | 2023 |
| <b>Vice President</b>      | Carl Ostrom     | System Resource   | 2023 |
| <b>Secretary/Treasurer</b> | Jack Douglass   | PacketStorm Comm. | 2023 |

**VSF Member List can be viewed at:**

[http://vsf.tv/current\\_members.shtml](http://vsf.tv/current_members.shtml)

**VSF Staff:**

Brad Gilmer – Gilmer & Associates, VSF Executive Director  
Bob Ruhl – VSF Operations Manager

**Summary:**

That's it for now. If you have any comments or suggestions, or if there is a topic that you would like to see covered in the next issue of the News Letter, please contact Bob Ruhl.

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