



Video Services Forum, Inc. News Letter

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This is the twelfth issue of the Video Services Forum (VSF) News Letter. The VSF feels that it is important to keep you informed about what is going on within the VSF since the VSF is **your** organization. As we realize that your time is valuable, we have kept this News Letter deliberately brief.

VSF Directors and Officers:

During the 1Q of every year, VSF Board of Directors elections are held at the annual member meeting. This year the meeting will take place on February 3, 2010 in Atlanta, Georgia during VidTrans10. The current Board is shown below with their term expiration dates. VSF Board Members are elected by VSF Members.

Director	Company	Term Expires
Rick Ackermans	Turner Broadcasting	2011
Pierre Costa	AT&T	2011
John Dale	Media Links	2011
Mary-Luc Champel	Thomson Grass Valley	2011
Richard Friedel	Fox Broadcasting	2010
John Mailhot	Harris Broadcast Communications	2010
Steve Storozum	Level 3 Communications	2010
Brian Wilson	Verizon	2010

The following VSF Officers were elected by the VSF Board for two-year terms, which run through February 2011.

President	Derek Smith	Consultant	2011
Vice President	Carl Ostrom	System Resource	2011
Secretary/Treasurer	Roger Hatcher	State of Georgia	2011

Administrative and Technical Staff:

Brad Gilmer – Gilmer and Associates, VSF Executive Director
 Barbara Main – VSF Administration
 Bob Ruhl – VSF Operations Manager

VSF Current Member List:

- AboveNet, Inc.
- AmericaFree.TV
- Analog Devices, Inc.
- Artel Video Systems
- AT&T
- Barco Silex
- Bell Canada
- BRIDGETECH A/S
- British Telecommunications
- CBC/Radio Canada
- Cisco
- Comtech EF Data
- D. Technologies
- DekTec Digital Video B.V.
- Dimetis GmbH
- DIRECTV
- DVBLink
- ESPN
- Evertz
- Fox Broadcasting
- Genesis Networks
- Georgia Technology Authority
- Harris Broadcast Communications
- IneoQuest Technologies
- intoPIX
- Level 3 Communications
- Magnum Semiconductor
- Media Links, Inc.
- Media Transport Solutions
- MediaXstream, Inc
- Merrill Weiss Group
- Miranda Technologies Inc.
- Mixed Signals Inc.
- Motorola, Inc.
- Net Insight
- Nevion
- Path 1, a division of IPVN
- Pathfire, Inc.
- Qvidium Technologies, Inc.
- RGB Networks
- Sencore, Inc.
- Spirent Communications
- Symmetricom
- System Resource Consulting
- TANDBERG TV
- Telecom Product Consulting
- Telstra Corporation Limited
- Thomson Grass Valley
- Turner Broadcasting
- T-VIPS
- Verizon
- Video Clarity, Inc.
- VQLink Incorporated
- Vyvx
- Witbe
- Xlinux

Meetings and Conferences:

VidTrans2010 Conference and Exposition will be held in Atlanta, Georgia at the Ritz Carlton, Buckhead Hotel on February 2-4, 2010.

This year's theme is "*Reaching the goal of Seamless Video Transport*". The conference is a unique gathering of service providers, equipment manufacturers, end users and others involved with the dynamic world of television and video. VidTrans10 promises to be informative, educational and enlightening. We have 12 out of 29 Booths reserved as of this writing so if you would like to exhibit please visit the "For Exhibitors" section of the VidTrans10 conference page to view available booths; <http://videoservicesforum.org>.

The current list of exhibitors are; *A.R.G., Artel Video Systems, Barco Silex, Evertz, Harris Broadcast Communications, into-PIX, Media Links Inc., Miranda, Net Insight, Nevion, RGB Networks, TANDBERG TV and T-VIPS.*

Early bird Registration, Lodging, Sponsorship opportunities as well as Call for Papers are available at: <http://videoservicesforum.org>.

The **VSF May 2010 Meeting Series** is scheduled for May 19 & 20 in San Jose, California hosted by Cisco Systems.

The **VSF October 2009 Meeting Series** was held October 6 & 7 in Charlotte, North Carolina hosted by Fox-SPEED.

The **Joint EBU/VSF 2009 Networks Seminar** was held June 22 & 23 in Geneva, Switzerland hosted by EBU.

The **VSF May 2009 Meeting Series** was held May 5 & 6 in Montreal, Canada hosted by CBC-Radio/Canada.

Activity Groups

(AGs) supply input and expertise to various industry standards bodies on behalf of the VSF. These are some of the topics that VSF Activity Groups are actively addressing:

CoP3 VBR Activity Sub-group: The Pro-MPEG work, defined as CoP3 for CBR MPEG2 transport streams over IP networks with FEC, was completed by the VSF and submitted to SMPTE and approved as SMPTE 2022-1 & 2022-2. The CoP3 VBR Activity Sub-group continues that work for VBR MPEG2 transport streams. This work was divided into two application focused activities, one for IPTV applications and another for broadcast contribution applications.

The IPTV work is very near completion and is slated for release to SMPTE at the December technical committee meetings.

The Broadcast Contribution was further split into two works. One work defining an interoperable standard for Piecewise Constant MPEG2 transport streams as defined in

the ISO-13818 MPEG document. The other work defining an interoperable standard for Non-Piecewise Constant MPEG2 transport streams as often found in large scale distribution networks.

The Piecewise Constant work has been completed and submitted to the SMPTE 32NF Technical Committee and is currently in the ballot process.

The Non-Piecewise Constant work is currently in progress with a method established. The remaining work is to complete the documentation of this method and submit it to SMPTE by the March technical committee meetings.

Chair: Carl Ostrom, System Resource

The **High Bit Rate Audio Video over IP (HBRAV- IP) Transport and FEC Committee** will create and shepherd a standard for an encapsulation and FEC process for high bit rate contribution oriented video/audio services up to 3Gbps over IP/Ethernet networks. This is to incorporate both uncompressed and JPEG2000 compressed video and audio formats.

1. Define encapsulation/FEC process for SMPTE 259M/C, SMPTE 292M, SMPTE 305M, SMPTE 424M, & JPEG2000. This will include both CBR RTP datagram streams (259M, 292M, 305M, and 424M) and VBR RTP datagram streams for JPEG2000
2. This shall include Liaison with other organizations such as EBU, IETF, JTC & SMPTE with the mission of creating of non-conflicting world wide standards for contribution video over IP

The HBRAV activity group is split into two working areas, Uncompressed and JPEG2000. Currently a draft uncompressed video encapsulation document and FEC document have been created and will be introduced into the SMPTE 32-NF Video over IP Ad Hoc Group in November. JPEG2000 encapsulation in MPEG2TS/RTP is the current focus for the JPEG2000 group

Co-Chairs: John Dale, Media Links, Inc., Pierre Costa, AT&T and Ryan Korte, Level 3 Communications

The **Quality of Experience (QoE)** is expanding the work of the Test and Measurements Activity Group and its Recommendation on Video over IP Metrics to content-related QoE measurements. It has the following goals:

1. Define metrics for characterizing content quality of video streams (examples - spatial & temporal complexity, quantization, and motion intensity)
2. Describe the relationship between transport losses and video payload as a function of content (examples - losses of intra/inter predicted macroblock, losses of I/P/B-slice, losses of high motion content).

3. Produce a detailed list of metrics characterizing video quality, similar in format to the Video over IP Metrics report. The list will provide a description of each metric and how it is computed, its usefulness and application to video services, as well as possible measurement locations in a video delivery system.

QoE recently signed a MoU with the ATIS IPTV interoperability Forum (IIF) for joint work on this topic.

Co-Chairs: Stefan Winkler, Symmetricom, and Pierre Costa, AT&T

To learn more about these Activity Groups please visit:
<http://www.videoservicesforum.org/about/index.htm>.

SMPTE Committees:

The VSF is preparing to move several projects through the committee structure of the Society of Motion Picture and Television Engineers (SMPTE). Our work is being conducted under the 32NF Networking Technology Committee. There are two ad-hoc groups, both chaired by Brad Gilmer, Executive Director of the VSF. The first group is the VBR group. The second is the Video over IP group. The SMPTE is currently balloting a document in the 32NF Technology Committee which would add VBR capabilities to the existing SMPTE 2022 CBR work. This ballot closes late in November. We anticipate starting deliberation on the High Bit Rate Audio/Video (HBRAV) Uncompressed and JPEG 2000 documents in the new 32NF Video over IP Ad-Hoc Group early in December. Please contact Brad Gilmer (brad@gilmer.tv) if you would like to join this ad-hoc group.

Other News:

We will be changing the VSF **members-only single access code** for VSF Meetings and VidTrans conference presentations located in the archive section on January 15, 2010. VSF Members will be provided with the new access codes prior to the change.

We do offer an **Industry Job Postings** section under the Resources drop down menu at: <http://www.videoservicesforum.org>. VSF Members can also post jobs under the Members Only drop down menu.

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 at bob.ruhl1@verizon.net.