VQEG Meeting Minutes

Hillsboro, OR

12/12/2011

(notes taken by Harvey Lieber, Dialogic)

Individual introductions

Quick Team updates

* Independent Lab Group (ILG) group update  
  Kjell reported that their work has been mainly done on behalf of the Hybrid project. Proponents and ILG have agreed on a fee.
* Multmedia2 (MM2)  
  Quan reported the Margaret will make a presentation of their work later in the week.
* HDTV  
  Margaret reported on current status.
* Hybrid  
  Silvio and Chulhee reported the group previously did not have enough test vectors and the group has been working on generation of more. The group hopes to be complete by the end of the year.
* Tools and Subjective Labs setup group  
  Glenn reported that they have been doing a lot of work to add tools.
* Project for Collaborative Development (JEG)  
  Kjell and Patrick reported on Qualinet involvement and status. Over 30 countries (not just EU countries) are involved. Within Qualinet, Kjell are Patrick are leading several groups.
* 3DTV  
  Marcus gave a summary status.
* Quality Assessment of Recognition Tasks (QART)  
  Mikolaj reported on status and recognized that Joel Dumke (NTIA) has done a lot of work.
* JEG-Hybrid  
  Marcus gave a summary status.

Liasion Reports

* Glenn reported on MPEG/3D work
* Chulhee reported on 3D quality assessment with ITU-R WP6C
* Chulhee reported on ITU-T SG12 and their model submission deadline is this week.
* Quan and Margaret reported on ITU-T SG9 including 3D quality assessment.
* Phil reported on 3D@Home. One study is focused on “bad” 3DTV and is targeted towards Hollywood. A second study is focused on children that have problems seeing 3D. The goal is to screen children and have them follow up with their eye doctors.
* Kjell reported on Qualinet.

QoE Standardization

* Arthur gave his VQEG presentation that he gave to Quality of Multimedia Experience (QoMex) in September.

Proposal

* Emmanuel presented a proposal (to be posted on VQEG website) on some new quality metrics. Arthur questioned Emmanuel if we wanted some new measures on the artifacts and Emmanuel affirmed. Mikolaj commented that MOS is considered a bad measure, however it is accepted worldwide. Arthur clarified that Emmanuel is asking for measures on individual artifacts, as opposed to a single MOS metric. Quan commented that many measurements are not designed as a “root cause analysis” measurement. Pini asked whether these measurements would apply to the end device or to the entire broadcast chain and Emmanuel responded that he had only thought about the end device however it could apply anywhere. There was much interest in this topic.

HDTV2

* Margaret reported on HDTV2 test plan. Margaret requested feedback on any new technology changes that needs further investigation. There was feedback on:

1. transcoding problems from MPEG2 to/from MPEG4.
2. the HEVC standard from MPEG.
3. The WEBM codec (from google?).
4. transcoding with transmission error impairments on both legs.
5. Interlaced SRC with de-interlaced PVS

MM2

* Quan started the talk.
* Margaret made a presentation on: “The influence of Environment on Audiovisual Subjective tests” (presentation on VQEG website). Subjective tests were done by 6 organizations across the world. In summary, the most important variables are the number of subjects and the opinions of the subjects.
* Andrew Catellier made a presentation on “Quality of Subsampled Video on Mobile devices.” This talk concerned when video signals, within the home, were changed from a STB to Mobile device. The same audiovisual signals were sent to all devices, modified to play on each device. The MOS scored were compared against the different mobile devices.
* John Ralston made a presentation (that was previously given at an IEEE meeting) on The Network that won’t stand still: Challenges and Opportunities for real time Mobile Video”. John agreed to be a liaison to IEEE P1907.1.