# Minutes Friday morning Jan 24, 2014

Notes taken by Lucjan Janowski and Mikołaj Leszczuk (AGH).

## Ultra HD

Work plan for Ultra HD was presented by Arthur Webster based on the document provided by Naeem Ramzan. There are defined three objectives:

1. Creating of Ultra HD database (current focus)
2. Defining subjective quality testing methodology.
3. Objective quality metrics.

Kjell Brunnström: Is CDVL able to host such files?

Margaret H. Pinson: It is possible, some sequences are prepared to be shared. Some problems with the currently available content were described.

Florence Agboma: Skype is able to provide some content. The content should be looked at to see if the type of content (anything, even removed in post processing), the length (anything starting from 15 seconds is very useful), legal limitations (many different options are possible) are suitable for use by VQEG and are available for such use.

Marcus Barkowsky: other available 4K content:

**Tears of steel**

Homepage: http://tearsofsteel.org

Uncompressed download (610GB): http://media.xiph.org/mango/tearsofsteel-4k-tiff/

**SJTU Dataset**

Paper: http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6603201&queryText%3Dsjtu+4K

Download link (92GB): http://medialab.sjtu.edu.cn/web4k/index.html

**EBU Sequences**

Homepage: https://tech.ebu.ch/testsequences/uhd-1

Only a few sequences are available without paying a fee and it is not clear whether encoding is allowed (the license states: Creative Commons Licence (Attribution- Non-Commercial - No Derivatives).

Also the SVT (The Swedish public service broadcaster) 4K content on VQEG fileserver and CDVL are available. (ftp://vqeg.its.bldrdoc.gov/HDTV/SVT\_MultiFormat/)

## Quart

Decision: Upcoming plan is focused on extending P.912 recommendation.

Presentation given by Joel Dumke explains: what is Generalized Use Classes (GUC’s), different dimensions of surveillance video system, the idea of Visual Acuity metric.

An object recognition experiment results were presented. The results are not very strong but the detail analysis shows that the target size is the key parameter.

An interesting questions is: How to manage the network capacity for specific event (which should be supported with extra surveillance cameras). Problem of network optimization for many video streams.

Bert Vankeirsbilck gives a presentation about a platform for the real-time subjective assessment of interactive multimedia (a video game in this case). The proposed platform can change many different options like, differently encoded different part of the screen, codec restart on the fly. More details can be found in the paper “Platform for real-time subjective assessment of interactive multimedia.” An experiment run on this platform involved video car race game was described. More details can be found in “Quality of experience driven control of interactive media stream parameters.”

Marcus Barkowsky: Would it be possible to get votes without stopping the game?

Bert Vankeirsbilck: It would be difficult to say when the game can be distorted by voting.

Rahul Gaurav: Were they experts in the field of Gaming research or normal gamers?

Bert Vankeirsbilck: Most just occasionally played a race game.

Kjell Brunnström: Have you done any test close to video conference?

Bert Vankeirsbilck: Not, the platform was used only for the one experiment until now. Right now the audio is not supported so it is impossible.

Christian Schmidmer: Would it be possible to record their voices and make such estimation of the quality.

Bert Vankeirsbilck: Some research was done with it. It is interesting idea.

## MOAVI

Presentation given by Mikołaj Leszczuk. Mapping KPI (Key Parameter Indicator) for different analyzed experiment was shown. The obtained results for some KPI were obtained: Blur, Exposure Time Distortions, Noise, Block loss, Blockiness, Freezing, Slicing. For the future AGH will work on the indicators which can be computed assuming that only HDMI signal is available.

Silvio Borer: Why does not KPI freezing work perfectly?

Mikołaj Leszczuk: it is difficult to say if a frame freezes or a still image is shown on the screen. Kjell Brunnström added that information about still image can be enough.

## AVHD

Silvio Borer proposed to add to the scope of the project description making it clearer what is the scope of the project.

Christian Schmidmer it will be corrected off line.

Christian Schmidmer led the test plan discussion.

1. Decision:
	1. AVHD is a group not project
	2. Within the group different projects are added: adaptive streaming, AV connection, HDTV II, Improved methods for AV testing.
	3. Group leader will have co-chairs and projects will have project manager. Each project has a project manager and one of the co-chair as leaders.
2. Decision: remove re-buffering and focus on the combining of audio and video quality for short sequences in the case of AV project (old AVHD).

## HYBRID

Decision about details of the final report, subscribing particular persons to the missing parts was done:

1. All proponents and ILG organizations should send “Organization” and “webpage”
2. Subjective test summary. Chulhee Lee agree to do it.
3. Executive Summary. Filling the missing part. Christian Schmidmer agree to do it.

New data were shown by Margaret H. Pinson.

All labs should make the decision about publishing the data. Probably some delay should be added. Silvio Borer will send an e-mail to the reflector asking all laboratories about making the data available.

Long discussion about current executive summary took place. The conclusion was made to publish in the meeting files of this meeting a draft version of the final report, including the draft executive summary. This file is ftp://vqeg.its.bldrdoc.gov/Documents/VQEG\_Boulder\_Jan14/MeetingFiles/VQEG\_HYBRID\_2014\_026\_VQEG\_Hybrid\_Final\_Report\_version0.2.doc

The VQEG meeting was closed around 5:30PM Friday, Jan 24, 2014. An optional work session was held on the following day (Saturday, Jan 25). Six people attended the optional work day.