VQEG Joint Effort Group

Boulder meeting 2010

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Boulder meeting JEG Agenda

- Recap
- Framework progress presentations
- Discussion on future call for evidence
  - Available test databases
- Procedure for Core Experiment
  - Subjective test procedure
  - SRC scenes
  - HRCs
  - Model test
  - Verification
JEG summary

• First scope: Hybrid NR-H264
  o Profile:
    ■ At least: Stream at NAL level
    ■ Possibility to define extended profile to cover protocol level parameters (UDP, RTP, DVB, bluray...)
  o Level: from QCIF to HD

• Main goals and benefits
  o Joint Effort based on scientific exchange
  o no needs for secret database!
    ■ Common Working Dataset WD (known by contributors) to test the contributions
    ■ Possibility to present analysis based on non public dataset
      Goal: identify limits of contribution for further improvement
    ■ Possibility to constantly feed the database with new conditions ...we can work on the database in parallel with model development

• Interested groups so far:
  o Acreo, NTIA, Ghent, Opticom, Ericsson, Tlabs, Intel, Verizon, BT, NTT
Collaborative approach for JEG (Joint Effort Group*)

*known also as groustougroust or gröstögrost
JEG working group activities

- Subjective assessment methodologies
- SRC collection
- Subjective Data Set
- PVS generation
- Software Integration

Evidence Group
- Experiment
- Core Experiment
Collaborative approach for JEG

Step 1: Call for Evidence

=> new metrics ...doesn't need to be full functional model
=> subjective methodology
=> limitation of current metrics
on a limited scope, for example/
coding impairments with access to the PVS and/or the bitstream
JEG approach

Step 2: decision to launch core experiment for validation =>
joint effort
  metric case: based on source code
experiments for testing and that increases the database

Step 3: decision
- further core experiment
- validation of the tested methods

Step 4: software integration

then reprocess all steps increasing the scope of the metrics
JEG approach

Working groups are working on:
- next CfE specification
- action points for common concerns: SRC collection, PVS generation, set up, software integration ...
- core experiment (current and beyond)
Next steps

- Call for evidence and contributions

Objectives and concerns of the call

Phil and Quand's