Video Codec Requirements and Evaluation Methodology

draft-ietf-netvc-requirements-03

Alexey Filippov (Huawei Technologies),
Andrey Norkin (Netflix),
Jose Alvarez (Huawei Technologies)
Contents

• An overview of applications ← No changes
• Requirements ← Changed
• Evaluation methodology ← Changed
Requirements

• General requirements ← No changes

• Basic requirements ← Changed
  ▪ The bitstream specification should support independently decodable sub-frame units similar to slices or independent tiles. It should be possible for the encoder to restrict the bit-stream to allow parsing of the bit-stream after a packet-loss and to communicate it to the decoder.

• Optional requirements ← No changes
Compression performance evaluation

- The number of QP-points was reduced up to 10
  - initially, it was 12
- Quality alignment was simplified
  - Now, it is performed just for 4 QP-points

- MS-SSIM-based quality assessment is performed only for luma
Conclusions

• The authors tried to take into account all the received comments

• We recommend to adopt this document as an RFC
Thank You