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**Email of convener: leonardo@chiariglione.org**

**Committee URL: mpeg.chiariglione.org**

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**ISO/IEC JTC1/SC29/WG11**

**CODING OF MOVING PICTURES AND AUDIO**

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| **Author** | **Rajan Joshi** |

# Abstract

This document describes the goals and mandates of PCC Validation Experiment VE 2.2 on simplified color smoothing.

# Introduction

The goal of VE 2.2 is to verify the implementation and the results of simplified color smoothing, as proposed in [1]. Once the implementation and results are verified, the method will be integrated into the reference software TMC2 v7.0. The results of this VE will be reported to the 3DG/PCC AhG via its email reflector.

# Mandates

The mandate for VE 2.2 is as follows:

* Verify the implementation and the results of simplified color smoothing [1].

# Participants

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| --- | --- | --- | --- |
| ***Participant*** | ***Contact*** | ***Email*** | ***Type*** |
| Samsung | Rajan JoshiHossein Najaf-Zadeh | r.joshi@samsung.comh.najafzadeh@samsung.com | P |
| Sony | Satoru Kuma | satoru.kuma@sony.com | C |
| Tencent | Sehoon Yea | Sehoonyea@tencent.com | C |

(P=proponent, C=cross checker)

# Test Model, anchors and CTC

The initial implementation will be on top of TMC2 v6.0 [2] and the simulation results will be reported against the TMC2 v6.0 (with --flagColorSmoothing=1 and default color smoothing parameters) using the test conditions specified in the Common Test Conditions document [3]. Only lossy conditions will be tested. The objective results will be provided using the result spreadsheet template.

# Timeline

2019/07/12 Patch available in the uploaded document [1].

2019/07/19 Share full-frame results with the cross checkers

2019/07/29 Confirmation of the full-frame results by the cross checkers

2019/07/31 Integration of the method into the integration branch for TMC2 v7.0 (subject to confirmation from the cross checkers)

2019/07/31 Release of the results to the 3DG/PCC AhG via its email reflector

2019/09/30 Integration of the method into the VPCC text specification

# Document and software references

1. Hossein Najaf-Zadeh, Madhukar Budagavi, Rajan Joshi, “[V-PCC] [New Proposal] Simplified low complexity color smoothing,” ISO/IEC JTC1/SC29 WG11 Doc. m49591, July 2019, Gothenburg, SE.
2. PCC Test Model Category 2 v6, ISO/IEC JTC1/SC29 WG11 Doc. N18475, March 2019, Geneva, CH.
3. Common test conditions for PCC, ISO/IEC JTC1/SC29 WG11 Doc. N18474, March 2019, Geneva, CH.