

**ISO/IEC JTC 1/SC 29/WG 11**

**Coding of moving pictures and audio**

**Convenorship: UNI (Italy)**

**ISO/IEC JTC 1/SC 29/WG 11 N19166**

**Document type: Approved WG 11 document**

**Title: Description of Exploration Experiment 13.35 for G-PCC on Explicit Signaling of OtQtBt**

**Status: Draft**

**Date of document: 2020-02-10**

**Source: 3DG**

**Expected action:**

**No. of pages:**

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**INTERNATIONAL ORGANISATION FOR STANDARDISATION**

**ORGANISATION INTERNATIONALE DE NORMALISATION**

**ISO/IEC JTC 1/SC 29/WG 11**

**CODING OF MOVING PICTURES AND AUDIO**

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**Brussels, BE – January 2020**

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| **Source:** | **3DG** |
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**Description of Exploration Experiment 13.35 for G-PCC on Explicit Signaling of OtQtBt**

# Abstract

This document provides a description of G-PCC Exploration Experiment (EE) 13.35 on Explicit Signaling of OtQtBt.

# Introduction

The goal of EE 13.35 is to investigate the performance of the explicit signaling of OtQtBt as proposed in m52722 [1].

# Information about proposed tools

## m52722: On explicit signalling of QtBt [1]

In this contribution, two possible ways to change the current QtBt design are proposed. One is to simplify it for typical use cases. The other is to extend the current design by allowing for more flexible ways of partitioning.

# Experimental description

In this EE, the proposed explicit signaling scheme will be evaluated in terms of its coding efficiency and implementation aspects.

## Mandates

1. Investigate the interaction of the proposed scheme with newly adopted tools such as in-loop octree quantization.

2. Investigate encoding schemes that can leverage the degree of freedom the proposed scheme provides for improved coding performance

## Participants

| **Name** | **Company** | **E-mail address** | **Type** |
| --- | --- | --- | --- |
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| David Flynn | Apple | [davidflynn@apple.com](mailto:davidflynn@apple.com) | Crosscheck |
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### Software

TMC13v9 shall be used for these experiments. The proposed tools shall be implemented on top of TMC13v9.

### Test configurations

Parameters and configurations for TMC13v9 software will be provided by the proponent.

### Evaluation Method

The point cloud test material will be tested under the following conditions of the CTC [3]:

* C2 Lossy Geometry – Lossy Attributes
* CW Lossless Geometry – Lossless Attributes

## EE.13.35 Coordinators

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# Timeline:

* **2020-03-20**: Deliver source code and results for cross check;
* **2020-04-03**:Report of preliminary cross check results;
* **2020-04-15**: MPEG document upload deadline.

# References

1. On explicit signalling of QtBt, ISO/IEC JTC1/SC29 WG11 m52722, Brussels, BE, January 2020
2. G-PCC Test Model v9, ISO/IEC JTC1/SC29/WG11 w19083, Brussels, BE, January 2020.
3. Common Test Conditions for PCC, ISO/IEC JTC1/SC29 WG11 w19084, Brussels, BE, January 2020.