

First edition
2013-07-15

AMENDMENT 1
2015-06-01

**Information technology — MPEG video
technologies —**

**Part 5:
Reconfigurable media coding
conformance and reference software**

**AMENDMENT 1: Graphics tool
library (GTL) reference software and
conformance**

Technologies de l'information — Technologies vidéo MPEG —

*Partie 5: Conformité du codage média reconfigurable et logiciels de
référence*

*AMENDEMENT 1: Logiciel de référence de la bibliothèque d'outils
graphiques (GTL) et conformité*



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The committee responsible for this document is ISO/IEC JTC 1, *Information technology, SC 29, Coding of audio, picture, multimedia and hypermedia information*.

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Information technology — MPEG video technologies —

Part 5:

Reconfigurable media coding conformance and reference software

AMENDMENT 1: Graphics tool library (GTL) reference software and conformance

Add 8.3.1 "Syntax Parsing SC3DMC":

8.3.1 Syntax Parsing SC3DMC

FU name	Contributor
Algo_Parser_SC3DMC	MinesTelecom – Telecom Sudparis

Add 8.3.8 "Generic Processing FUs":

8.3.8 Generic Processing FUs

FU name	Contributor
Algo_inverseQuantization1D	MinesTelecom – Telecom Sudparis
Algo_inverseQuantizationND	MinesTelecom – Telecom Sudparis
Algo_inversePrediction1D	MinesTelecom – Telecom Sudparis
Algo_inversePredictionND	MinesTelecom – Telecom Sudparis
Algo_ED_AD_StaticBit	MinesTelecom – Telecom Sudparis
Algo_ED_AD_AdaptiveBit	MinesTelecom – Telecom Sudparis
Algo_ED_VLD	MinesTelecom – Telecom Sudparis
Algo_ED_BitPrecision	MinesTelecom – Telecom Sudparis
Algo_ED_AD	MinesTelecom – Telecom Sudparis
Algo_ED_AD_EG	MinesTelecom – Telecom Sudparis
Algo_ED_4bitsD	MinesTelecom – Telecom Sudparis
Algo_ED_FixedLength	MinesTelecom – Telecom Sudparis
Algo_LookUpTable1D	MinesTelecom – Telecom Sudparis
Algo_InverseLookUpTable1D	MinesTelecom – Telecom Sudparis
Algo_ContextModelling	MinesTelecom – Telecom Sudparis
Algo_ExtractMask_SC3DMC	MinesTelecom – Telecom Sudparis
Algo_simpleMath_2op	MinesTelecom – Telecom Sudparis

Add 8.3.98 “Decoder Specific Processing FUs”:

8.3.9 Decoder Specific Processing FUs

FU name	Contributor
Algo_ContextModelling_SVA_nType	ETRI, Hanyang University
Algo_ContextModelling_SVA_INDEXES	ETRI, Hanyang University
Algo_ContextModelling_SVA_VERTEX_ATTRIBUTE	ETRI, Hanyang University
Algo_DecodeConnectivity_SVA	ETRI, Hanyang University
Algo_DecodeConnectivity_TFAN	MinesTelecom – Telecom Sudparis
Algo_ExtractFaceDirection_SVA	ETRI, Hanyang University
Algo_Connectivity_InversePrediction_SVA	ETRI, Hanyang University

Add 8.3.10 “Generic Management FUs”:

8.3.10 Generic Management FUs

FU name	Contributor
Mgnt_Replicate_1_2	MinesTelecom – Telecom Sudparis
Mgnt_Replicate_1_4	MinesTelecom – Telecom Sudparis
Mgnt_Replicate_1_8	MinesTelecom – Telecom Sudparis
Mgnt_MUX_2_1	MinesTelecom – Telecom Sudparis
Mgnt_MUX_4_1	MinesTelecom – Telecom Sudparis
Mgnt_MUX_8_1	MinesTelecom – Telecom Sudparis
Mgnt_DEMUX_1_2	MinesTelecom – Telecom Sudparis
Mgnt_DEMUX_1_4	MinesTelecom – Telecom Sudparis
Mgnt_DEMUX_1_8	MinesTelecom – Telecom Sudparis
Mgnt_ExtractSegment	MinesTelecom – Telecom Sudparis
Mgnt_ProviderValue	MinesTelecom – Telecom Sudparis
Mgnt_ExtractValue	MinesTelecom – Telecom Sudparis
Mgnt_ExtractBits	ETRI, Hanyang University

Conformance (Decoder level testing)

The following bitstreams are in the conformance data set.

- a) Troll.s3d
- b) Chicken.s3d
- c) Dance.s3d

All the bitstreams from the data set are encoded with the following configurations (each line in the table represents an encoding configuration):

Encoding method	Entropy encoding type	Prediction type	Filename
TFAN	4Bits coding	Differential	chicken_tfan_Diff_4C.s3d
TFAN	Arithmetic coding	Differential	dance_tfan_Diff_AC.s3d
TFAN	Exponential Golomb	Differential	troll_tfan_Diff_ACEG.s3d
TFAN	BitPrecision	Differential	chicken_tfan_Diff_BP.s3d
TFAN	NO	Differential	chicken_tfan_Diff_NO.s3d