# INTERNATIONAL STANDARD

## ISO/IEC 23002-5

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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

*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*

# Foreword

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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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## Part 5:
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## 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 8.398 "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 |