INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

H.222.0

Amendment 4

(02/98)

SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

Infrastructure of audiovisual services – Transmission multiplexing and synchronization

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Information technology – Generic coding of moving pictures and associated audio information: Systems

Amendment 4

ITU-T Recommendation H.222.0 – Amendment 4

(Previously CCITT Recommendation)

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INTERNATIONAL STANDARD 13818-1

ITU-T RECOMMENDATION H.222.0

INFORMATION TECHNOLOGY – GENERIC CODING OF MOVING PICTURES AND ASSOCIATED AUDIO INFORMATION: SYSTEMS

AMENDMENT 4

Summary

This Amendment addresses needed changes of MPEG-2 transport system for the 4:2:2 and multi-view profiles.

Source

The ITU-T Recommendation H.222.0, Amendment 4 was approved on the 6th of February 1998. The identical text is also published as ISO/IEC International Standard 13818-1.

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the ITU. The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

INTELLECTUAL PROPERTY RIGHTS

The ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. The ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, the ITU had received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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INFORMATION TECHNOLOGY – GENERIC CODING OF MOVING PICTURES AND ASSOCIATED AUDIO INFORMATION: SYSTEMS

AMENDMENT 4

1) Subclause 2.4.3.5

a) *Replace the caption of Table 2-7 with:*

Table 2-7 – Splice parameters Table 1

Simple Profile Main Level, Main Profile Main Level, SNR Profile Main Level (both layers), Spatial Profile High-1440 Level (base layer), High Profile Main Level (middle + base layers), Multi-view Profile Main Level (base layer) Video

b) *Replace the caption of Table 2-8 with:*

Table 2-8 – Splice parameters Table 2

Main Profile Low Level, SNR Profile Low Level (both layers), High Profile Main Level (base layer), Multi-view Profile Low Level (base layer) Video

c) *Replace the caption of Table 2-9 with:*

Table 2-9 – Splice parameters Table 3

Main Profile High-1440 Level, Spatial Profile High-1440 Level (all layers), High Profile High-1440 Level (middle + base layers), Multi-view Profile High-1440 Level (base layer) Video

d) *Replace the caption of Table 2-10 with:*

Table 2-10 –Splice parameters Table 4

Main Profile High Level, High Profile High-1440 Level (all layers), High Profile High Level (middle + base layers), Multi-view Profile High Level (base layer) Video

e) *Replace the caption of Table 2-15 with:*

Table 2-15 – Splice parameters Table 9

High Profile High Level (base layer), Multi-view Profile Main Level (both layers) Video

f) *Replace the caption of Table 2-16 with:*

Table 2-16 – Splice parameters Table 10

High Profile High Level (all layers), Multi-view Profile High-1440 Level (both layers) Video

g *Add the following tables after Table 2-16:*

Table 2-16-1 – Splice parameters Table 11

4:2:2 Profile Main Level Video

splice_type	Conditions
0000	splice_decoding_delay = 45 ms; max_splice_rate = 50.0×10^6 bit/s
0001	splice_decoding_delay = 90 ms; max_splice_rate = 50.0×10^6 bit/s
0010	splice_decoding_delay = 180 ms; max_splice_rate = 50.0×10^6 bit/s
0011	splice_decoding_delay = 225 ms; max_splice_rate = 40.0×10^6 bit/s
0100	splice_decoding_delay = 250 ms; max_splice_rate = 36.0×10^6 bit/s
0101-1011	Reserved
1100-1111	User-defined

Table 2-16-2 – Splice parameters Table 12

Multi-view Profile Low Level (both layers) Video

splice_type	Conditions
0000	splice_decoding_delay = 115 ms; max_splice_rate = 8.0×10^6 bit/s
0001	splice_decoding_delay = 155 ms; max_splice_rate = 6.0×10^6 bit/s
0010	splice_decoding_delay = 230 ms; max_splice_rate = 4.0×10^6 bit/s
0011	splice_decoding_delay = 250 ms; max_splice_rate = 3.7×10^6 bit/s
0100-1011	Reserved
1100-1111	User-defined

Table 2-16-3 – Splice parameters Table 13

Multi-view Profile High Level (both layers) Video

splice_type	Conditions
0000	splice_decoding_delay = 120 ms; max_splice_rate = 130.0×10^6 bit/s
0001	splice_decoding_delay = 150 ms; max_splice_rate = 104.0×10^6 bit/s
0010	splice_decoding_delay = 240 ms; max_splice_rate = 65.0×10^6 bit/s
0011	splice_decoding_delay = 250 ms; max_splice_rate = 62.4×10^6 bit/s
0100-1011	Reserved
1100-1111	User-defined

2) Subclause 2.6.7

Replace Table 2-44 in subclause 2.6.7 with:

Value	Description
0	Reserved
1	ITU-T Rec. H.262 | ISO/IEC 13818-2 Spatial Scalability
2	ITU-T Rec. H.262 | ISO/IEC 13818-2 SNR Scalability
3	ITU-T Rec. H.262 | ISO/IEC 13818-2 Temporal Scalability
4	ITU-T Rec. H.262 | ISO/IEC 13818-2 Data partitioning
5	ISO/IEC 13818-3 Extension bitstream
6	ITU-T Rec.H222.0 | ISO/IEC 13818-1 Private Stream
7	ITU-T Rec. H.262 | ISO/IEC 13818-2 Multi-view Profile
8-14	Reserved
15	Base layer

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