

International Telecommunication Union

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

H.222.0

Corrigendum 4
(12/2009)

SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

Infrastructure of audiovisual services – Transmission
multiplexing and synchronization

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

**Technical Corrigendum 4: Corrections to
Amendment 3 on transport of scalable video
over Rec. ITU-T H.222.0 | ISO/IEC 13818-1**

Recommendation ITU-T H.222.0 (2006) – Technical
Corrigendum 4



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For further details, please refer to the list of ITU-T Recommendations.

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

Technical Corrigendum 4

**Corrections to Amendment 3 on transport of scalable video over
Rec. ITU-T H.222.0 | ISO/IEC 13818-1**

Summary

This corrigendum corrects Recommendation ITU-T H.222.0 (2006) | ISO/IEC 13818-1:2007 Amd.3 (2009). This includes renaming an SVC definition and removal rate from transport buffer for SVC. This text was approved as Corrigendum 1 to ITU-T H.222.0 (2006) | ISO/IEC 13818-1:2007 Amendment 3 and was renamed as Corrigendum 4 for publication purposes.

History

Edition	Recommendation	Approval	Study Group
1.0	ITU-T H.222.0	1995-07-10	15
1.1	ITU-T H.222.0 (1995) Amend. 1	1996-11-11	16
1.2	ITU-T H.222.0 (1995) Amend. 2	1996-11-11	16
1.3	ITU-T H.222.0 (1995) Technical Cor. 1	1998-02-06	16
1.4	ITU-T H.222.0 (1995) Amend. 3	1998-02-06	16
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1.6	ITU-T H.222.0 (1995) Amend. 5	1999-05-27	16
1.7	ITU-T H.222.0 (1995) Amend. 6	1999-05-27	16
2.0	ITU-T H.222.0	2000-02-17	16
2.1	ITU-T H.222.0 (2000) Technical Cor. 1	2001-03-01	16
2.2	ITU-T H.222.0 (2000) Technical Cor. 2	2002-03-29	16
2.3	ITU-T H.222.0 (2000) Amend. 1	2002-12-14	16
2.4	ITU-T H.222.0 (2000) Amend. 1/Cor. 1	2003-06-29	16
2.5	ITU-T H.222.0 (2000) Amend. 2	2003-06-29	16
2.6	ITU-T H.222.0 (2000) Amend. 3	2004-03-15	16
2.7	ITU-T H.222.0 (2000) Technical Cor. 3	2005-01-08	16
2.8	ITU-T H.222.0 (2000) Amend. 4	2005-01-08	16
2.9	ITU-T H.222.0 (2000) Amend. 5	2005-01-08	16
2.10	ITU-T H.222.0 (2000) Technical Cor. 4	2005-09-13	16
3.0	ITU-T H.222.0	2006-05-29	16
3.1	ITU-T H.222.0 (2006) Amend.1	2007-01-13	16
3.2	ITU-T H.222.0 (2006) Amend.2	2007-08-29	16
3.3	ITU-T H.222.0 (2006) Cor.1	2008-06-13	16
3.4	ITU-T H.222.0 (2006) Cor.2	2009-03-16	16
3.5	ITU-T H.222.0 (2006) Amend.3	2009-03-16	16
3.6	ITU-T H.222.0 (2006) Cor.3	2009-12-14	16
3.7	ITU-T H.222.0 (2006) Cor.4	2009-12-14	16
3.8	ITU-T H.222.0 (2006) Amend.4	2009-12-14	16

FOREWORD

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 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.

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

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INTERNATIONAL STANDARD
RECOMMENDATION ITU-TInformation technology – Generic coding of moving pictures
and associated audio information: Systems

Technical Corrigendum 4

Corrections to Amendment 3 on transport of scalable video over
Rec. ITU-T H.222.0 | ISO/IEC 13818-1

1) General

Replace all occurrences of 'AVC video sub-bitstream' with 'AVC video sub-bitstream of SVC'.

2) Subclause 2.14.3.5

- a) Modify the definition of R_{x_n} and add definition of R_{bx_n} below Figure AMD3-1, after " EBS_H is the size of elementary stream buffer EB_H , measured in bytes", as follows:

R_{x_n} transfer rate from TB_n to MB_n as specified below
 R_{bx_n} transfer rate from MB_n to DRB_n as specified below

- b) In the section titled " **TB_n , MB_n , EB_n buffer management**", add a new bullet point after the fifth bullet point, as follows:

- Transfer from TB_n to MB_n is applied as follows:
When there is no data in TB_n then R_{x_n} is equal to zero. Otherwise:

$$R_{x_n} = \text{bit_rate}$$

where bit_rate is $1.2 \times \text{BitRate}[\text{SchedSelIdx}]$ of data flow into the CPB for the byte stream format and $\text{BitRate}[\text{SchedSelIdx}]$ is as defined in Annex E of ITU-T Rec. H.264 | ISO/IEC 14496-10 when $\text{NAL_hrd_parameters}()$ is present in the VUI parameters of the SVC video sub-bitstream.

NOTE 2 – Annex E also specifies default values for $\text{BitRate}[\text{SchedSelIdx}]$ based on profile and level when NAL HRD parameters are not present in the VUI. The SVC video sub-bitstream level is determined by the level of AVC video stream resulting from re-assembling (up to) the associated video sub-bitstream n in elementary stream ES_n .

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