

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

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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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**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**

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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
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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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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  $R_{b_{x_n}}$  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

$R_{b_{x_n}}$  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  $\text{bit\_rate}$  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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