INTERNATIONAL ORGANISATION FOR STANDARDISATION
ORGANISATION INTERNATIONALE DE NORMALISATION
ISO-IEC/JTC1/SC29/WG11
CODED REPRESENTATION OF PICTURE AND AUDIO INFORMATION

Title: Inter working between wide screen SCIF and SCIF video conferencing systems

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Purpose: Information

Introduction

In MPEG93/514 or AVC-525 (Telecommunication requirements for the Next profile) reference is made to a technical solution for the inter working of wide screen SCIF and SCIF video conferencing systems will remaining H.261 compatible.

In this document a technical solution within the MPEG2 framework is outlined.

Inter working

Inter working of different (generations of) equipment's have always been an important telecommunication requirement. This applies to MPEG2 and H.261 equipment's which have to inter work, this will also be a valid requirement for the different MPEG2 telecommunication equipment's coming up (see figure 1).
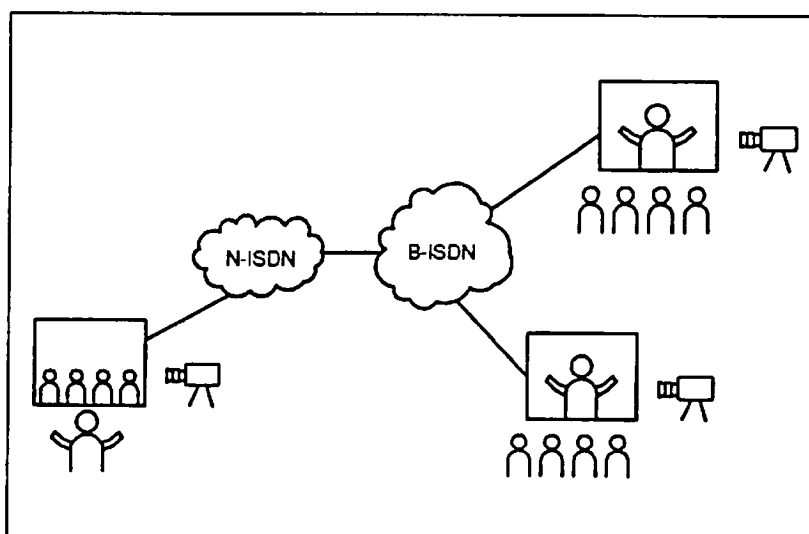

Figure 1: Inter working/compatibility between H.32x on B-ISDN and H.320 on N-ISDN

Given that the next generation of video conferencing units will be based on SCIF, in parallel to that development or little later wide screen SCIF units will be produced. Inter working is essential for these equipment's. The MPEG2 syntax does allow inter working/compatibility between wide

screen SCIF and SCIF video conferencing units. During the capabilities exchange it will be
determined that inter working is required between SCIF and wide screen SCIF. In figure 2, the upper
right video conferencing unit will switch to a mode in which a 4*3 (12*9) stream is generated plus
two other streams of 2*9 for the side panels (depicted with the dotted lines). Signalling of the relation
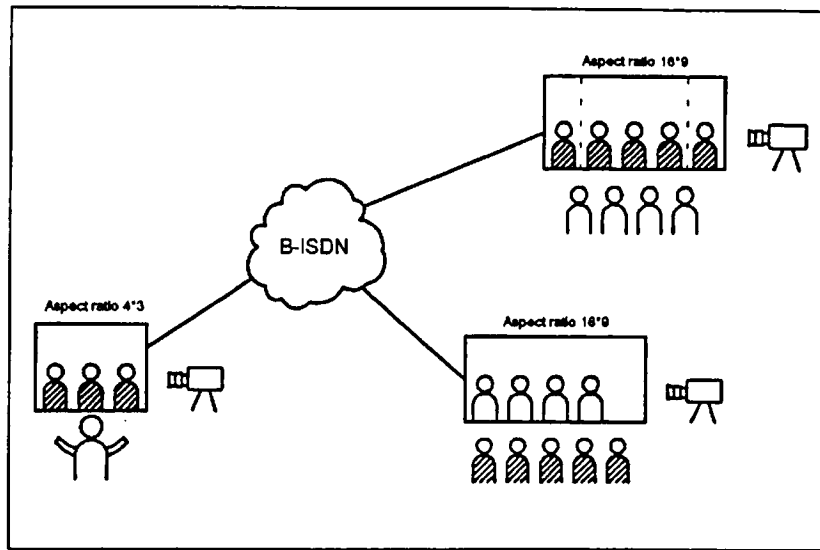of the three streams will provided by the MPEG/systems program descriptor.

Figure 2: Inter working between Wide Screen SCIF and SCIF

Combining inter working between N-ISDN and B-ISDN and inter working between Wide Screen
SCIF and SCIF will also allow for inter working between all three cases. This is depicted in figure 3.
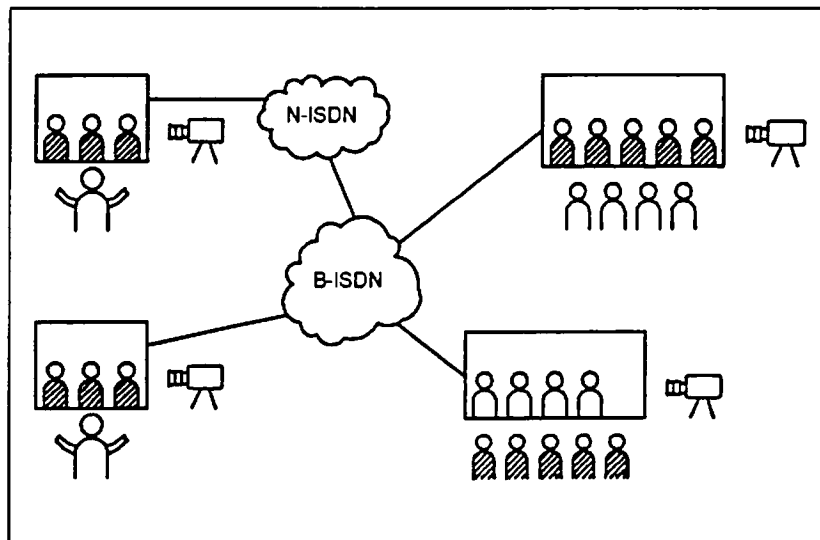

Figure 3: Inter working between Wide Screen and SCIF H.32x and H.320

Conclusion
Inter working between Wide Screen SCIF and SCIF and inter working between H.320 and H.32x will
be provide by the coming Standard.