ITU Telecommunication Standardization Sector
Study Group 15
Experts Group for Video Coding and Systems
in ATM and Other Network Environments

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ITU - Telecommunication Standardization Sector
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Audiographic Conferencing

SOURCE: Rapporteur Q10/8

TITLE: Liaison statement to Q2/15

STATUS: Not approved by Study Group 8

SUBJECT: Harmonization of T.123 and H.245 protocol stacks for B-ISDN

FOR: Action before February 1996

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At our interim meeting, we considered more carefully your liasion from February 1995 (extract from COM 15-R 27, Annex 8) and decided to harmonize by using FR-SSCS (I.365.1) in the case of a separate VC, as you suggested.

However, we believe that FR-SSCS is also a useful element in the case of a single VC, where the data stream is input to an H.222.0-H.222.1 multiplex. One of our concerns is to avoid the redundant calculation of a Q.922 FCS and rely simply on the AAL 5 CRC. We bring this to your attention, because we believe the same consideration may apply to the H.245 protocol stack.

Attached are the two relevant sections from our current draft of revised T.123 *Network specific data protocol stacks for multimedia conferencing.* We would appreciate your review and comment in time for our February 1996 meeting, at which we propose to determine the revision.

7.5 B-ISDN basic mode profile

Figure 10 defines the B-ISDN basic mode profile. Layers above Q.922 are identical to the ISDN profile.

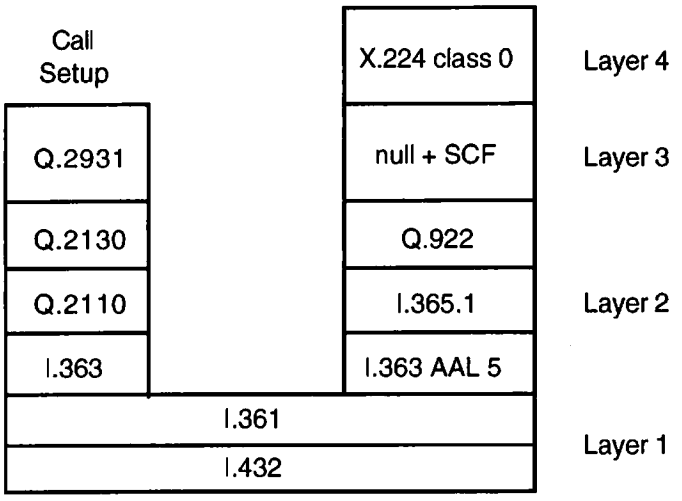

FIGURE 10/T.123
B-ISDN basic mode profile

Layer 4

- As specified in 7.1.

Layer 3

- As specified in 7.1.

Layer 2

- Q.922.
- Protocol parameters and options as specified in clause 10.
- PDU structure defined in Figure 3/I.365.1 (no use of flags, transparency, or FCS).
- PDU octets conveyed as one CPCS-SDU using AAL type 5.

Layer 1

- ATM virtual channel.

13.5 Alternative: B-ISDN based on H.222

Figure 20 defines an alternative basic mode profile for B-ISDN based on H.222. This protocol stack multiplexes audio, video, and data together over a single ATM virtual channel.

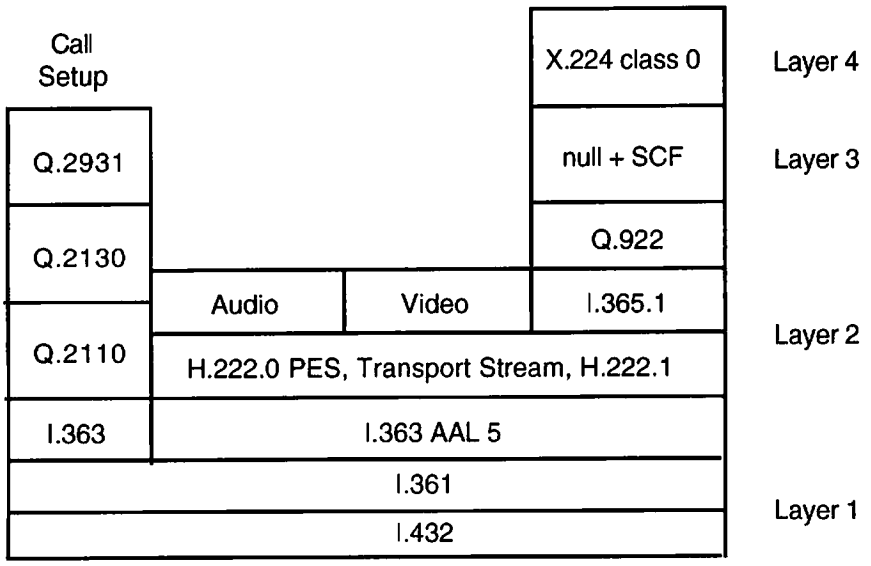

FIGURE 20/T.123
Alternative basic mode profile for B-ISDN based on H.222

Layer 4

- As specified in 7.1.

Layer 3

- As specified in 7.1.

Layer 2

- Q.922.
- System parameter N201: default 128 octets, maximum 148 octets.
- Other protocol parameters and options as specified in clause 10.
- PDU structure defined in Figure 3/I.365.1 (no use of flags, transparency, or FCS).
- PDU octets conveyed as the data byes of one PES packet using Transport Stream, with transmission as specified in H.222.1 using AAL 5.
- No use of PES extension or stuffing bytes.
- No use of Transport Stream adaptation field.

Note - This ensures that, after 4 octets for the Transport Stream packet header and at most 32 octets for the PES packet header, at least 152 data bytes remain to carry the I.365.1 PDU. Hence, the content of each Q.922 frame is conveyed inside a single CPCS-SDU, and it can rely on AAL 5 error detection instead of FCS.

Layer 1

- ATM virtual channel.