Telecommunication Standardisation Sector
Study Group 15
Experts Group for Video Coding and Systems in
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SOURCE : Stuart Dunstan, Siemens Ltd
TITLE : Protocols to support H.245
PURPOSE : Discussion and Proposal

Attention is drawn to the output from the Kamifukuoka meeting regarding the protocol stack to support transfer of H.245 messages. In TD19 [1] and TD20 [2] it is suggested that the SSCOP is tightly coupled to AAL type 5 and therefore unsuitable for use in MPEG Systems. This may not be correct.

AAL type 5 simply provides a guaranteed data integrity service to the SSCOP i.e. at the receiver the only data passed to the SSCOP is guaranteed to contain no errors. Packets with errors are discarded.

The same service can be provided by H.222.1, using the following rules.

Send side:
- an SSCOP PDU has a CRC32 appended to the end of it
- this new PDU is placed in an appropriate PES packet and placed in the PS, or segmented for use in the TS.

Receive side:
- a received SSCOP PDU with an incorrect CRC32 is discarded

In TD19 and TD20 a LAP type protocol, which uses flag delineation, is proposed. H.222.0/1 is however inherently a packet based system and the use of flag delineation is not required.

Commonality with the T.120 protocol stack may be more important than commonality with the LBC protocol stack. The two protocol stacks do not exist in the same terminal in the later case, whereas they may do in the former case.

The same configuration must be used in H.222.1 to support the T.120 SSCOP protocol stack in the case of a single VC.

These considerations should be taken into account in deciding protocol support for H.245.

References

[1] TD19 (Kamifukuoka), "Considerations on H.24X Protocol Stack", ITU-T Study Group 15 Experts Group, January 1995.

[2] TD20 (Kamifukuoka), "Draft correspondence to SG8 on multiple VCs and error free transport protocol for H.24X", ITU-T Study Group 15 Experts Group, January 1995.

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