ITU-T TELECOMMUNICATION STANDARDIZATION SECTOR
Study Group 15
Experts Group for Video Coding and Systems
in ATM and other Environments

(Rapporteur's Group on part of Q.2&3/15)

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Study Group 15 - CONTRIBUTION

Question: 2&3/15

SOURCE: IBM

Purpose: Proposal

TITLE: Handling of Simultaneous Calls when Setting Up an H.245 Control Channel

ABSTRACT:

Handling of Simultaneous Calls when Setting Up an H.245 Control Channel

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Contacts: Jeff Lynch and Ovies Brabson
IBM CE6A/664
P.O. Box 12195
Research Triangle Park, NC 27709 USA
+1 919 254 4454 / Fax: +1 919 254 5410
jjlynch@ralvm6.vnet.ibm.com

Simultaneous Calls

Currently in H.310 or H.245, if two H.310 stations call each other at exactly the same time to establish their control connection, no mechanism exists to detect this situation and to drop one of the connections.

ATM Q.2931 will allow two simultaneous calls between the same two terminals. Q.2931 believes that it is up to a higher layer protocol to detect "duplicate" connections and leaves it up to the ATM application to decide what to do about it (which call to drop, etc.).

Since H.245 is not involved in the actual ATM connection establishment between the terminals, this problem needs to be solved at the H.310 level. It is my understanding that this same problem was recently dealt with by the H.323 group and resolved in a similar manner.

Proposal

When an H.310 terminal detects simultaneous calls (call collisions), H.310 will choose the call being setup by (originating from) the terminal with the higher ATM address as the winner. The other call will be dropped.

References

[1] ITU-T Recommendation H.310 (1996): "Broadband and audio-visual communications systems and terminal equipment".