CCITT SGXV
Working Party XV/1
Specialists Group on Coding for Visual Telephony

Document #348
May 2, 1988

D.339/XV

CCITT

COMXV

Period 1985-1988

Mars 1988

Question 4/XV

Original: English

STUDY GROUP XV-CONTRIBUTION

Source: Finland

Title: Proposal for items to be studied under the new question on 64 kbit/s videophone during the next study period.

Considering

- that finding an optimum solution to 64 kbps video coding problem is the most crucial question for the development of the future videophone service
- that the optimization of image quality must be done mainly between resolution (pixels), frame rate (Hz) and motion toleration (%)
- that this trade off process differs considerably from that of higher bit-rates
- that the available bit rate for compressed video is only 48 kbps, and not 64 - 112 kbps as expected still some time ago
- that the encoding/decoding delay must be kept low in order to enable interactive communication
- that the codec must be implemented in reasonable amount of hardware (codec size, production costs, power consumption)
- that a lot of preliminary work has been carried out with proprietary or patented coding algorithms

We propose

- that a list of system level parameters (image quality, dynamic degradation, delay, toleration of transmission errors, hardware complexity etc) should be worked out
- that only field proven coding methods which meet the system level parameters should be taken into account for the final evaluation work
- that only those proprietary coding methods which are, in advance declared to be commonly available on 'reasonable terms', should be taken into consideration