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

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TITLE: Draft H.32Z
PURPOSE: For discussion and expansion at the Experts Group meeting, 13-15 July 1994

The attached is the skeleton which was presented to the May 1994 meeting of SG15 WP1.

Recommendation H.32Z

VISUAL TELEPHONE SYSTEMS AND TERMINAL EQUIPMENT FOR LOCAL AREA NETWORKS

{Ed. Text within curly brackets beginning "Ed" is not part of the Recommendation, but serves to hold notes, questions etc by the editor.}

{Ed. It is assumed agreed that interworking with H.320 is a feature of H.32Z but this can be interpreted in two ways: (1) Terminals and systems complying with H.32Z are required to interwork with H.320. (2) H.32Z provides the means for terminals and systems to interwork with H.320 but their inclusion is optional, ie terminals and systems which only support "on-LAN" connections do comply. The editor is of the opinion that the first interpretation should be followed.}

{Ed. This framework is taken directly from H.320. Perusal of H.320 shows that §3.3 and §3.4 constitute the major part and are concerned with all the various modes and set-up. To interwork with H.320 all this will need to be repeated in H.32Z. Use of something other than H.221 on the LAN will require the design and validation of this alternative and the translations necessary at the LAN/ISDN interface. Direct "encapsulation" of the H.320 bit stream begins to look attractive! If that is the chosen route then H.32Z will look very different from the framework here. The editor is of the opinion that this point must be decided before further work is expended on drafting the Recommendation.}

1 Scope

This Recommendation covers the technical requirements for narrow-band visual telephone services defined in H.200/AV.120-Series Recommendations, in those situations where the transmission path includes a Local Area Network (LAN). {Ed. "guaranteed bandwidth" to be added when its precise meaning is agreed}

Systems and terminal equipment complying with this Recommendation are able to interwork with those complying with Recommendation H.320.

{Ed. H.32Z will be similar, possibly extremely similar to H.320. Should H.32Z be a delta Rec. or stand-alone?}

2 Definitions

{Ed. If stand-alone, probably all definitions in H.320 will be repeated here. Any new ones specific to H.32Z?}

{Equivalent of Figure 1/H.320}

3 System Description

3.1 Block diagram and identification of elements

{Ed. As §3.1 of H.320 but change I.400 in final sentence?}

3.2 Signals

{Ed. As §3.2 of H.320 but change final bullet to reflect additions if H.221 not used on LAN.}

3.3 Bit rate options and infrastructure

3.3.1 Communication modes of visual telephone.

{Ed. As §3.3.1 of H.320 for connection to H.320 off-LAN? Allow other modes for on-LAN H.32Z to H.32Z?}

3.3.2 Terminal types of visual telephone

{Ed. Need §3.3.2 of H.320 for connection to H.320 off-LAN. New types for on-LAN H.32Z to H.32Z?}

3.3.3 *Video codec*

As per Recommendation H.261.

3.3.4 *Audio codec*

As per Recommendations G.711, G.722, H.200/AV.254, AV.253 (see Table 1/H.32Z)

3.3.5 *Frame structure*

3.3.6 *Control and indication (C&I)*

3.3.7 *Communication procedure*

3.4 *Call control arrangements*

3.4.1 *Establishment of a ....*

3.4.5 *Transmission and display of pictures at the start of a ...*

3.5 *Optional enhancements*

3.5.1 *Data ports*

3.5.2 *Encryption*

4. **Terminal requirements**

4.1 *Environments*

4.2 *Audio and video arrangements*

4.3 *Delay compensation in the audio path*

4.4 *Control and Indications (C&I)*

5 **Intercommunications**

5.1 *Intercommunication between different terminal types*

5.2 *Intercommunication with telephony*

5.2.1 *Intercommunication with ISDN telephones*

5.2.2 *Intercommunication with PSTN telephones*

5.2.3 *Intercommunication with other audiovisual terminals*

6 **Maintenance**

7 **Human factor aspects**