

SOURCE : Japan  
TITLE : The specification of H.32X hardware for the interconnection experiment  
PURPOSE: Proposal

## 1. Introduction

An interconnection experiment is planned to verify the recommendations H.262, H.222.0, H.222.1, H.32X, and H.24X. Document AVC-659 describes the scope of experiment, schedule, testing items and so on. According to the document, we propose the hardware specification.

## 2. Hardware specifications

Items	Mandatory spec.	Optional spec.
<b>Video codec</b>		
Coding scheme	H.262	
Picture format (ENC)	525/60 720(pixel) x 240(line) x 60(field)	625/50
Profile/Level (ENC)	SP@ML(field or frame structure)	MP@ML
Picture format (DEC)	525/60	625/50
Profile/Level (DEC)	SP@ML(field and frame structure)	MP@ML
Coding rate	CBR	VBR
<b>Audio codec</b>		
Coding scheme	MPEG-1 Layer-2	
The number of channel	2 channel (stereo)	
Coding rate	384 kbps (192kbps x 2channel)	192, 224, 256, 320 kbps
Sampling rate	48.0 kHz	44.1 kHz
<b>Multimedia MUX</b>		
MUX scheme	H.222.0 TS	H.222.0 PS
Information rate at AAL-SAP (*1)	n/m of network clock (n,m)=(47,1215) [6.016Mbps]	(n,m)=(47,2430), (47,810), (94,1215) [3,9,12Mbps]
CSPS	-	On/Off
System clock/Network clock synchronism(*2)	none	sync.
The number of program	single	multiple
<b>AAL</b>		
Type (*3)	Type 1 or Type 5	Type 1 and Type 5
Timing recovery	none	Adaptive clock (*4)
Error correction	none	Long interleave /Short interleave (I.363) (*4)
<b>Others</b>		
Physical interface point	none	AAL-SAP, ATM-SAP
Data channel	none	multiple
C&I	none	sync. to video
Communication procedure, protocol	none	H.24X
Interconnection to the different type terminal	none	H.32Y (H.320)

notes

- \*1 : The values of n, m are specified to offer 6.144 Mbps after the AAL1 PDU header (1 byte) is added. These values remain for further study in case that AAL type 5 is employed and/or FEC is employed.
- \*2 : Clock relation is shown in Figure 1.
- \*3 : The mapping from TS packet to ATM cell in AAL5 is for further study.
- \*4 : These can be selected for AAL type1.

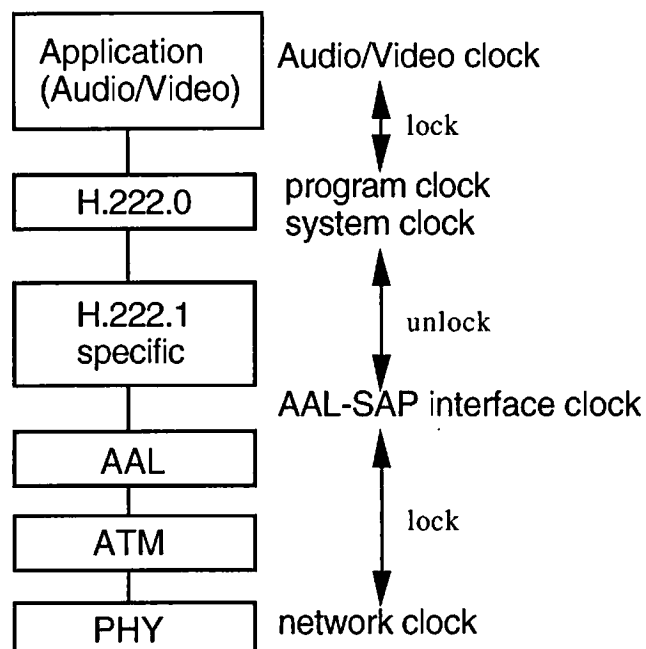


Fig.1 Clock relation in the H.32X protocol stack

### 3. Call for participation

Three Japanese organizations are scheduled to take part in this verification test as of October 1994, and more participants would be welcome. It is possible for a variety of communication equipments to participate, such as an encoder only or decoder only terminal, a video server, and a test signal generator.

### Reference

AVC-659 "A plan of H.32X hardware interconnection experiment in Japan",  
July 6th, 1994.

END