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

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Title: List of open Issues - 16 September 1994
Purpose: for action

See also Editor's comments in Draft H.222.1, H.32X, H.32Y, H.32Z which indicate open issues.

#	Item	Rec. H.	Ref. AVC-	Note
A	**Network adaptation**			
A-1	Comments on the H.222.0 text	222.0		common text with ISO/IEC 13818-1
A-2	ITU-T specific channels	222.0	Annex 2 to 673R	
A-3	Method to send video frame synchronous C&I signals	222.0, 222.1	Annex 2 to 673R	
A-4	Integration of C&I with DSM-CC? channel and protocol	222.0, 222.1	Annex 2 to 674R	
A-5	Method of communication mode switching	222.0, 222.1	656, §D.4 / 674R	use of PSM/PSI version number and *stream_id*
A-6	Descriptors for use in PSI or PSM which identify the nature of ITU-T streams	222.1	656	4) /Annex 3 to AVC-673R
A-7	Priority and Structure parameters at AAL-SAP	222.1, (I.363?)	1) /Annex 3 to 673R	
A-8	Bit error/cell loss handling	222.1, I.363	657	
A-9	AAL2: bit error correction, dejittering, delay for VBR communications	222.1, I.363		to include AAL1 as its subset
A-10	CDV reduction in the network adaptation layer; degree of reduction, speed of convergence , relevance to RTI	222.1, I.363	§4.1/ 643R, §D.2/ 674R, 628, 647	AAL functionality or H.222.1 specific functionality?
A-11	Use of the outband channel for signalling VBR cell rate	222.1, Q.2931 ?	§10.2/673R	for speeding up the timebase recovery

A-12	Interaction between CDV reduction and bit error correction	222.1, I.363		e.g. between adaptive clock and interleaver
A-13	Comparison of adaptive clock and SRTS for circuit emulation	222.1		
A-14	Single VC vs multiple VCs	222.1, 32X	640, 664, 675	migration and interworking scenario
A-15	Specification of the multiple VC solution	222.1	640, 664, 675	
A-16	Representation of multiple VCs in the Protocol Reference Model	32X	640, 664, 675	
A-17	Support of hierarchical coding in multiple channels	222.1	664	
A-18	Handling of COTS in the single VC solution	222.1	640, 675	
A-19	Channel for communication procedures	222.1	Annex 2 to 673R	symmetrical, asymmetrical, unidirectional
A-20	Security aspects	222.1		encryption, conditional access
A-21	Allocation of functionalities to each of the network adaptation layer elements	222.0, 222.1, I.363	Annex 3 to 632R	bit error/cell loss handling, jitter removal
A-22	Profile approach for the network adaptation	222.1	§7.2/ 598R, §8.2.2 / 632R	based on • requirements from applications, • network performance, • performance
A-23	Delay budget of the total system including the network adaptation	222.1	§7.2/ 598R	
A-24	Method for conveying H.222.1 mode of operation at the start of the call	Q.2931 ?		via outband signalling
A-25	Basic structure of communication procedures	24X		• acknowledged mode and/or unacknowledged mode? • should cover symmetrical, asymmetrical, unidirectional cases
A-26	Indication of preferred receiving mode	24X	655	
B	**Video coding and VBR**			

B-1	Comments on the H.262 text	262		common text with ISO/IEC 13818-2
B-2	Increase of frame rate to 60 Hz for Main Level	262	646	§4.1/AVC-673R, §C.3.3/AVC-674R
B-3	Clarification of VBR video operation method	222.0, 262	647	under the constraint of the piecewise constant rate
B-4	VBV operation for VBR	222.0, 262	§C.2 / 674R	
B-5	UPC impact on stepwise constant VBR	222.0, 262	§5/Annex 3 to 632R	
C	**AV terminals and systems**			
C-1	Service requirements for audiovisual communications systems	32X	637	Annex 7 to IVS Baseline Document
C-2	Characterization of operational modes and terminal types	32X	666, Annex 4 to 673R	
C-3	Definition of operational bit rates	32X		continuous or quantized?
C-4	Minimum set of interworking modes of operation; 2B, H0, H11 and H12	32X	§3/Annex 5 to 673R	no problems from implementation consideration?
C-5	Differences in interface with B-ISDN and ATM-LAN	32X		no difference for the H.32X accommodation?
C-6	Short interleaver is mandatory for H.32Y?	32Y	653	
C-7	Signalling of AAL1 tools among H.32Y terminals, AAL1 terminal adaptors, interworking units	32Y, Q.2931 ?	§2 10) / Annex 5 to 673R	
C-8	Cell loss correction, delay issue in the B-N interworking	32Y	653, §7.1/673 R	characteristics of Interworking Function
C-9	A general bit error correction mechanism is necessary?	32Y, I.363?	§2 11) / Annex 5 to 673R	FEC only without interleaving
C-10	Circuit emulation without SDT has no problem?	32Y, I.363	§2 8), 9) / Annex 5 to 673R	interleaver and SDT; circuit emulation can be audiovisual service specific?
C-11	Clarification on "bandwidth guaranteed" network, either circuit or packet based	32Z	§8.1/673 R	

C-12	Better terminology for "bandwidth guaranteed"	32Z	§8.1/673 R	
C-13	Interface with the "best effort" network	32Z	§8.1/673 R	
C-14	Call set up matters for the H.32Z system	32Z		
C-15	Network configuration model for the H.32Z system	32Z		
C-16	Specifications for the network interface	32Z		
D	**Miscellaneous**			
D-1	UPC related issues: video stream parameters, video rate control, additional CDV, ...	-	§5.2.3/ 598R, §6/Annex 3 to 632R	Rate control is not part of the standards.
D-2	SECB consideration	-	635	
D-3	Hardware trial specifications	-	659, §2 8)/ Annex 4 to 673R	
D-4	Multipoint audiovisual communication systems	32X, 32Y, 32Z, others		

References

TD-4 (Daejeon)	List of open issues (October 1993)
AVC-598R, 599R	Reports of the Daejeon/Seoul meeting (October - November, 1993)
AVC-631R, 632R, 633R	Reports of the Geneva/Paris meeting (March 1994)
AVC-643R	Report of the MPEG Atlanta meeting (June 1994)
AVC-673R, 674R	Reports of the Grimstad meeting (July 1994)