Recommendation T/CD 04-02 E (Innsbruck 1981) concerning the requirements for permission to connect non-PTT equipment to public data networks using X.20 or X.20bis interfaces

Recommendation proposed by Working Group T/WG 10 "Data Communication" (CD)

Text of the Recommendation adopted by the "Telecommunications" Commission:

"The Conference of European Post and Telecommunications Administrations,

Considering

- that public data networks are implemented or will be implemented in the future;
- that harmonization of requirements for permission to connect non-PTT equipment is essential;
- that the administrative procedure for approvals are covered in Recommendation T/SF 13.

Recommends

the view that the following technical information must be obtained in order that Administrations may determine whether permission to connect to public data networks may be given."



1.	GENERAL INFO	RMATION	
	DTE type:		
	Factory No.:		
	Manufacturer (nan	ne, address, telephone & telex numb	ber):
	Agent (name, addre	ess, telephone & telex number):	
2.	INTERFACES US	ED	
2.1.	With which CCITT	Recommendation does the DTE c	onform
		X.20	
		X.20bis	*
2.2.	Naturally true anni:		
2.2.	Network type application		
		Circuit switched	*
		Leased line	
		* Cross applicable.	

2.3.	Remarks	٠

3. DATA SIGNALLING RATE, CODE AND ALPHABET

Data signalling rate (bit/s)	*	
300		Indicate the signalling rate
50-200		·

For DTE with the X.20-interface and working with data signalling rates of 50-200 bit/s only: Is the DTE able to signal with 200 bit/s during the call establishment phase?

* Cross applicable

Yes

No

Additional for both X.20 and X.20bis DTEs

What code(s) and alphabet(s) are used?

What error-checking method(s) is (are) used?

How many retransmissions are made in the case of transmission errors?

How are transmission errors indicated?

4.	MODE OF OPERATION						
		Simplex					
		Half-duplex *					
		Duplex					
		* Cross applicable.					
	One	ly for DTE employing half-duplex operation:					
	Но	w is the half-duplex operation controlled?					
	(a)	By special DTE-to-DTE control information					
	(b) By control of interchange** circuits (105, 109)						
	* Cross applicable.						
		** Note: The use of circuit 105 is not possible for control of half-duplex operation in the case of the X.20bis interface.					

5. INTERCHANGE CIRCUITS V.-SERIES

5.1. Data interface

V.24 interchange circuit No.	Designation	Pin No.	Electrical characteristics		
circuit No.	-	No.	V.10	V.28	
101	Protective ground				
102	Signal ground or common return				
103	Transmitted data				
104	Received data				
105	Request to send				
106	106 Ready for sending				
107	107 Data set ready				
108.1	Connect data set line				
108.2	Data terminal ready				
Data channel received line signal de					
125	125 Calling indicator				
141	Local loop-back				
142	Test indicator				

5.2.	Use of circuits 107 and 108					
	Use of circuit 107*					
	Indication of ready for data.					
	Indication of DCE clear indication.					
	Indication of DCE clear confirmation.					
	Indication of DCE clear indication inhibited by circuit 108.					
	Use of circuit 108*					
	Use of circuit 108.1 for call request.					
	Use of circuit 108.1 for call acceptance.					
	Use of circuit 108.1 for DTE clear request.					
	Use of circuit 108.1 for DTE clear confirmation.					
	Use of circuit 108.2 for call acceptance.					
	Use of circuit 108.2 for DTE clear request.					
	Use of circuit 108.2 for DTE clear confirmation.					
	Circuit 108.2 not used. (Strapped to ON in the DCE.)					
	* Cross applicable.					

6. INTERCHANGE CIRCUITS X.-SERIES

Interchange circuits used

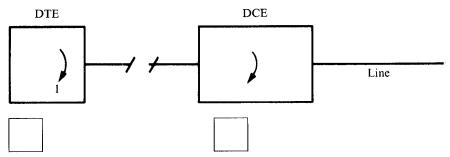
X.24 interchange	Designation	Pin	Electrical characteristics	
circuit No.	Designation	No.	X.26 (V.10)	X.27 (V.11)
G	Signal ground or common return			
Ga	DTE common return			
TA TB	Transmit			
RA RB	Receive			

7.	MISCELLANEOUS						
7.1.	Facilities Which of the following facilities in the network can the DTE use?						
	Full number selection.						
	Direct call.						
	Redirection of calls.						
	Abbreviated address calling.						
	Charge advice.						
	Calling line identification.						
	Connect when free.						
	Facility registration/cancellation.						
	Closed user group.						
7.2.	Additional for X.20-DTE						
	(a) How quickly can the DTE respond to an incoming call?						
	(b) Is the DTE capable of handling Call progress signals and other DCE-provided information?						
	No Yes						

7.3.	X.2	Obis time-out					
	How long time does the DTE wait to turn circuit 108 from OFF to ON after incoming call, to indicate "Call accepted".						
		ms					
8.		ECTRICAL CHARACTI nominal values are laid		levant	CCITT-Recommendations.		
8.1.	Ger	erator					
	(a)	Integrated circuit?	Yes	No	Cross applicable.		
		If yes, indicate type and	l manufacturer:				
	(b)	Discrete components?	Yes	No	Cross applicable.		
		If yes, indicate test resu	lts of the follow	ving cl	haracteristics:		
		Open circuit measureme.	nt				
		Binary state 0:	V				
		Binary state 1:	v				
		Test termination measur	rement				
		Binary state 0:	V				
		Binary state 1:	V				
		Short-circuit measureme	ent				
		Binary state 0:	mA				
		Rinary state 1:	mA				

		Power-off measurement				
		Leakage current:		μΑ		
		Transition time measurer	nent			
		0-1 transition:	μs	3		
		1-0 transition:	μs	S		
8.2.	Rec	eiver				
	(a)	Integrated circuit?	Yes		No	Cross applicable.
		If yes, indicate type and	manuf	acture	r:	
	(b)	Discrete components?	Yes		No	Cross applicable.
		If yes, indicate test result	lts of th	e follo	owing	g characteristics:
		Input voltage-current me	asureme	ent		
		Binary state 0:	n	nΑ		
		Binary state 1:	n	nΑ		
		DC sensitivity measurem	ent			
		Binary state 0:	n	nV		
		Binary state 1:	n	nV		
9.	ME	CHANICAL CHARACT	TERIST	ics ()F TI	THE DTE INTERFACE CONNECTOR
	15- <u>j</u>	oin connector (ISO 4903)				
	25-1	oin connector (ISO 2110)				Cross applicable.
	Inte	erface adaptor to be used	?	Yes		No
	If y	es, indicate kind of adap	tion:			

10. TEST LOOPS



Cross the loops the DTE can operate.

Indicate other loops that can be used by the DTE:

11. ELECTRICAL SAFETY

Indicate all recognized national and/or international safety standards to which the DTE conforms. Indicate classes/types of equipment referred to in these standards where applicable. Statements of compliance with the above standards are taken to be legally binding.

Has the DTE already received electrical safety approval according to the above standards?



If yes, indicate names, addresses of all approving authorities and approval code numbers which the DTE has received:

12.	DADIO	INTERFERENC	E SUPPRESSION
IZ.	KADIO		

Indicate all recognized national and/or international standards to which the DTE conforms. Statements of compliance with the above standards are taken to be legally binding.

Has the DTE already received appropriate approvals according to the above standards?

Yes No

If yes, indicate names, addresses of approving authorities and approval code numbers which the DTE has received:

The above particulars have been submitted by

Signature:

Date:

Telephone: