INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

I.231.5

INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

SERVICE CAPABILITIES – BEARER SERVICES SUPPORTED BY AN ISDN

CIRCUIT-MODE BEARER SERVICE CATEGORIES – CIRCUIT-MODE 2 × 64 kbit/s UNRESTRICTED, 8 kHz STRUCTURED BEARER SERVICE

ITU-T Recommendation I.231.5

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation I.231.5 was published in Fascicle III.7 of the *Blue Book*. This file is an extract from the *Blue Book*. While the presentation and layout of the text might be slightly different from the *Blue Book* version, the contents of the file are identical to the *Blue Book* version and copyright conditions remain unchanged (see below).

2 In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

Recommendation I.231.5

CIRCUIT-MODE BEARER SERVICE CATEGORIES – CIRCUIT-MODE 2 × 64 kbit/s UNRESTRICTED, 8 kHz STRUCTURED BEARER SERVICE

(Melbourne, 1988)

5 I.231.5 - Circuit-mode 2 × 64 kbit/s unrestricted, 8 kHz structured bearer service category

5.1 *Definition*

This bearer service category provides the unrestricted transfer of two 64 kbit/s user information flows over two
B-channels at the user network interface.

5.2 *Description*

For further study.

5.3 *Procedures*

For further study.

5.4 *Network capabilities for charging*

This Recommendation does not cover charging principles. Future Recommendations in the D-Series are expected to contain that information.

It shall be possible to charge the subscriber accurately for the service.

5.5 *Interworking requirements*

For further study.

5.6 *Interaction with supplementary services*

For further study.

5.7 *Attributes and values of attributes of the circuit mode 2 × 64 kbit/s unrestricted, 8 kHz structured bearer service category*

Information transfer attributes

1.	Information transfer mode:	circuit
2.	Information transfer rate:	2 × 64 kbit/s
3.	Information transfer capability:	unrestricted (Note)
4.	Structure:	8 kHz integrity with restricted differential time delay (RDTD)
5.	Establishment of communication:	demand/reserved/permanent
6.	Symmetry:	bidirectional symmetric/bidirectional asymmetric/unidirectional
7.	Communication configuration:	point-to-point/multipoint

Access attributes

8.	Access channel:	two B(64) for user information
9.	Access protocol:	I-Series for D-channel

General attributes

10. Supplementary services provided
11. Quality of Service
12. Interworking possibilities
13. Operation and commercial aspects

} for further study

Note - Digit sequence integrity (DSI) is ensured for each elementary 64 kbit/s information.

5.8 *Provision for individual circuit-mode 2 × 64 kbit/s, unrestricted, 8 kHz structured bearer services*

a) Overall provision[1)] : A

b) Variations of secondary attributes

	Establishment of communication	*Symmetry*	*Communication of configuration*	*Provision*[1)]
I.231.5/1	demand	bidirectional	pt-pt	E
I.231.5/2	reserved		pt-pt	A
I.231.5/3	permanent		pt-pt	E
Other combinations				A

c) Access

Signalling and OAM (Note 1)		User information		Provision
Channel rate	Protocols	Channel and rate	Protocols	
D(16)	I.451 (Note 2)	2 × B(64)	User-defined	E
D(64)	I.451 (Note 2)	2 × B(64)	User-defined	E

Note 1 - Definition of protocols for OAM is for further study.

Note 2 - Demand services only. Further study for reserved and permanent services.

5.9 *Dynamic description*

The dynamic description for this service needs further study and is not yet available.

1) The definition of E (essential) and A (additional) can be found in Recommendation I.230.