Technical Specification Group Services and System Aspects
Meeting #9, Hawaii, USA, 25-28 September 2000

TSGS#9(00) 0390

Source: **TSG SA1**

Title: **CR to 22.002 on Deletion of bearer service BS 30 NT**

Document for: **Approval**

Agenda Item: **7.1.3**

Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc. No.
22.002	008		R00	C	Deletion of bearer service BS 30 NT	3.4.0	3.5.0	S1-000595

TSG-SA WG 1 (Services) meeting #9 **S1 00 0595**
Taastrup, Denmark 17th – 21st July 2000 *7.14*

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

22.002	CR	008	Current Version:	3.4.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to: TSG SA #9 (*list expected approval meeting # here ↑*) — for approval [X] / for information [ ] — strategic [ ] / non-strategic [ ] (*for SMG use only*)

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: (*at least one should be marked with an X*) (U)SIM [ ] ME [X] UTRAN / Radio [ ] Core Network [X]

Source: SA1 **Date:** 17/7/00

Subject: Deletion of Bearer Service 30 Non-transparent

Work item: TEI Clean-up of data services

Category: (*only one category shall be marked with an X*)

F	Correction	
A	Corresponds to a correction in an earlier release	
B	Addition of feature	
C	Functional modification of feature	X
D	Editorial modification	

Release:

Phase 2	
Release 96	
Release 97	
Release 98	
Release 99	
Release 00	X

Reason for change: Considering the current situation (no terminals supporting BS 30 NT and there are no networks providing this service) it is proposed to delete the non-transparent version of the Bearer Service 30 continuing the process of R99 service clean-up that recently deleted the Basic Packet Access service.

Clauses affected: 3

Other specs affected:

Other 3G core specifications	X	→ List of CRs:
Other GSM core specifications		→ List of CRs:
MS test specifications		→ List of CRs:
BSS test specifications		→ List of CRs:
O&M specifications		→ List of CRs:

Other comments:

help.doc

<--------- double-click here for help and instructions on how to create a CR.

3 Bearer Services

This clause provides a list of the existing Bearer Services and indicates the values for each attribute in the minimal set. The following attributes have the same value for all Bearer Services. Their values are as follows:

- Information Transfer Mode: "Circuit";
- Information Transfer Rate: Not applicable (see note);
- Establishment of Communication: "Demand";

- Symmetry: "Bi-directional Symmetric";
- Communication Configuration: "Point to point".

NOTE: The Information Transfer Rate attribute is not applicable because it depends on the reference point assumed in the PLMN, transit or terminating network.

All asynchronous NT Bearer Services may support data compression to enhance user data throughput.
NT Bearer Services 20 ~~and 30~~ may support V.120 interworking, enabling data terminals connected to an UE to interwork with V.120 [12] terminal adapters on the ISDN as shown in the figure 2 below.

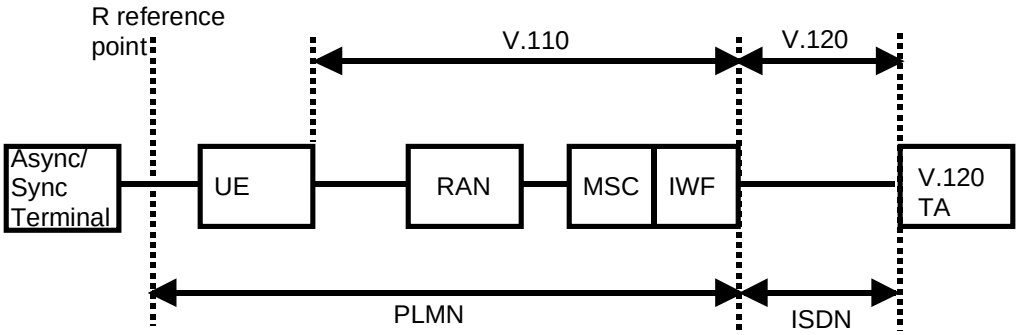

Figure 2: Model of V.120 Interworking

Table 2 contains the list of the Bearer Services and the values for the remaining attributes in the minimal set.

Table 2

Bearer Service Number	Bearer Service Name	Access Structure	Access Rate	Information Transfer Capability	QOS Attribute	Notes
20	Asynchronous General Bearer Service	Asynch	note 1	note 1	note 1	See note 1
30	Synchronous General Bearer Service	Synch	note 2	note 2	note 2	See note 1
NOTE 1: This General Bearer is independent of any nominal rate. It is elaborated in more detail in subclause 3.1 NOTE 2: BS 30 is only available in transparent mode. In addition p~~P~~lease refer to subclause 3.1.						

3.1 General bearer service user data characteristics

The tables below describe the characteristics of the General Bearer Services. The indicated fixed network user rates are possible, but support of General Bearer Service does not imply support of all rates.

3.1.1 3,1 kHz Audio

Fixed Network User Rate	Access Structure	Information Transfer Capability	QoS attributes	Note
0.3 kbit/s	Asynch	3,1 kHz	NT or T	Note 2 and 4
1.2 kbit/s	Asynch, Synch	3,1 kHz	NT or T	Notes 1,2, ~~and~~ 4 and 6
2.4 kbit/s	Asynch, Synch	3,1 kHz	NT or T	Note 2, ~~and~~ 4 and 6
4.8 kbit/s	Asynch, Synch	3,1 kHz	NT or T	Note 2, ~~and~~ 4 and 6
9.6 kbit/s	Asynch, Synch	3,1 kHz	NT or T	Note 5 and 6
14.4 kbit/s	Asynch, Synch	3,1 kHz	NT or T	Note 5 and 6
19.2 kbit/s	Asynch, Synch	3,1 kHz	NT or T	Note 5 and 6
28.8 kbit/s	Asynch, Synch	3,1 kHz	NT or T	Note 6
	Asynch	3,1 kHz	NT	Note 3

NOTE 1: Not applicable to synchronous NT service.

NOTE 2: These services are also supported by the GSM Phase 2 Specifications.

NOTE 3: This is used with high speed modems such as V.90 (56kbit/s). Modem type = 'Autobauding Type 1' is selected. FNUR has no meaning in this case.

NOTE 4: In case of UTRAN the FNURs 300, 1200, 2400 and 4800 bit/s towards the fixed network can be provided only in Async non-transparent (NT) mode with modem type = 'Autobauding Type 1' is selected.

NOTE 5: In case of UTRAN the FNURs 9.6, 14.4 and 19.2 kbit/s towards the fixed network shall be provided only in non-transparent (NT) mode.

NOTE 6: NT is not applicable for synchronous services.

3.1.2 V.110 UDI

Fixed Network User Rate	Access Structure	User Information Layer 1 protocol	QoS Attribute	Notes
0.3 kbit/s	Asynch	V.110	NT or T	note 2 and 3
1.2 kbit/s	Asynch, Synch	V.110	NT or T	note 1, 2, ~~and~~ 3 and 5
2.4 kbit/s	Asynch, Synch	V.110	NT or T	note 2, ~~and~~ 3 and 5
4.8 kbit/s	Asynch, Synch	V.110	NT or T	note 2, ~~and~~ 3 and 5
9.6 kbit/s	Asynch, Synch	V.110	NT or T	note 2, ~~and~~ 4 and 5
14.4 kbit/s	Asynch, Synch	V.110	NT or T	Note 4 and 5
19.2 kbit/s	Asynch, Synch	V.110	NT or T	Note 4 and 5
28.8 kbit/s	Asynch, Synch	V.110	NT or T	Note 5
38.4 kbit/s	Asynch, Synch	V.110	NT or T	Note 4 and 5
48 kbit/s	Synch	V.110	T	
56 kbit/s	Synch	V.110	T (in a 64 kbit/s environment)	

NOTE 1: Not applicable to synchronous NT service.

NOTE 2: These services are also supported by the GSM Phase 2 Specifications.

NOTE 3: In case of UTRAN the user rates 300, 1200, 2400 and 4800 bit/s towards the fixed network can be provided only for mobile terminated calls and only in Async non-transparent (NT) mode.

NOTE 4: In case of UTRAN the FNURs 9.6, 14.4, 19.2 and 38.4 kbit/s towards the fixed network shall be provided only in non-transparent (NT) mode.

NOTE 5: NT is not applicable for synchronous services.

3.1.3 ~~X.31 Flag Stuffing UDI~~Void

~~Fixed Network User Rate~~	~~Access Structure~~	~~User Information Layer 1 protocol~~	~~QoS Attribute~~	~~Notes~~
~~2.4 kbit/s~~	~~Synch~~	~~X.31 Flag Stuffing~~	~~NT~~	~~note 1 and 2~~
~~4.8 kbit/s~~	~~Synch~~	~~X.31 Flag Stuffing~~	~~NT~~	~~note 1 and 2~~
~~9.6 kbit/s~~	~~Synch~~	~~X.31 Flag Stuffing~~	~~NT~~	~~note 1 and 2~~
~~14.4 kbit/s~~	~~Synch~~	~~X.31 Flag Stuffing~~	~~NT~~	
~~19.2 kbit/s~~	~~Synch~~	~~X.31 Flag Stuffing~~	~~NT~~	
~~28.8 kbit/s~~	~~Synch~~	~~X.31 Flag Stuffing~~	~~NT~~	
~~38.4 kbit/s~~	~~Synch~~	~~X.31 Flag Stuffing~~	~~NT~~	
~~48 kbit/s~~	~~Synch~~	~~X.31 Flag Stuffing~~	~~NT~~	
~~56 kbit/s~~	~~Synch~~	~~X.31 Flag Stuffing~~	~~NT~~	

~~NOTE 1: These services are also supported by the GSM Phase 2 Specifications.~~

~~NOTE 2: In case of UTRAN the user rates 2400 and 4800 bit/s are not supported.~~

3.1.4 V.120

Fixed Network User Rate	Access Structure	User Information Layer 1 protocol	QoS Attribute	Notes
1.2 kbit/s	Asynch	V.120	NT	Note 3
2.4 kbit/s	Asynch~~, Synch~~	V.120	NT	Note 3
4.8 kbit/s	Asynch~~, Synch~~	V.120	NT	Note 3
9.6 kbit/s	Asynch~~, Synch~~	V.120	NT	
14.4 kbit/s	Asynch~~, Synch~~	V.120	NT	
19.2 kbit/s	Asynch~~, Synch~~	V.120	NT	
28.8 kbit/s	Asynch~~, Synch~~	V.120	NT	Note 1
38.4 kbit/s	Asynch~~, Synch~~	V.120	NT	
48 kbit/s	Asynch~~, Synch~~	V.120	NT	
56 kbit/s	Asynch~~, Synch~~	V.120	NT	Note 2

NOTE 1: Requires a new code point in V.120 specification to be defined.

NOTE 2: Not applicable in a 56 kbit/s environment.

NOTE 3: In case of UTRAN the user rates 1200, 2400 and 4800 bit/s toward the fixed network can be provided only for asynchronous non-transparent (NT) mobile terminated calls.

3.1.5 Bit Transparent Mode

Fixed Network User Rate	Access Structure	User Information Layer 1 protocol	QoS Attribute	Notes
56 kbit/s	Synch	Bit transparent	T (RDI) (in a 56 kbit/s environment)	
64 kbit/s	Synch	Bit transparent	T (UDI) (in a 64 kbit/s environment)	

3.1.6 PIAFS

Fixed Network User Rate	Access Structure	User Information Layer 1 protocol	QoS Attribute	Notes
32 kbit/s	Asynch	PIAFS	NT	
64 kbit/s	Asynch	PIAFS	NT	

3.1.7 Frame Tunnelling Mode

Fixed Network User Rate	Access Structure	User Information Layer 1 protocol	QoS Attribute	Notes
56kbit/s	Asynch	X.31 flag stuffing	NT	
64 kbit/s	Asynch	X.31 flag stuffing	NT	Note1

Note1: Not applicable in a 56kbit/s environment.

3.1.8 Multimedia Call

Fixed Network User Rate	Access Structure	Information Transfer Capability	User Information Layer 1 protocol	QoS Attribute	Notes
28.8 kbit/s	Synch	3.1kHz Audio	H.223 & H.245	T	
32.0 kbit/s	Synch	UDI	H.223 & H.245	T	Note
33.6 kbit/s	Synch	3.1kHz Audio	H.223 & H.245	T	Note
56 kbit/s	Synch	RDI	H.223 & H.245	T	
64 kbit/s	Synch	UDI	H.223 & H.245	T	

NOTE: 32kbit/s and 33.6kbit/s FNURs are applicable only for UTRAN.