Technical Specification Group Services and System Aspects
Meeting #8, Düsseldorf, Germany, 26-28 June 2000

TSGS#8(00)0192

Source: **TSG SA1**

Title: **CRs to Bearer Services Supported by a PLMN (22.002)**

Document for: **Approval**

Agenda Item: **6.1.3**

Doc-1st-Level	Doc-2nd-Level	Spec	CR	Rev	Phase	Cat	Subject	Version-Current	Version-New
SP-000192	S1-000274	22.002	006		R99	F	Lower User Rates in UMTS for Circuit Switched Data Services	3.3.0	3.4.0

3GPP SA Working Group 1 Meeting #8
Beijing, 10 April - 14 April 2000

Document S1-000274
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

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	006	Current Version:	3.3.0

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

For submission to: TSG#8 *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:** 14/4/00

Subject: Lower User Rates in UMTS for Circuit Switched Data Services

Work item:

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

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

Release:

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

Reason for change: Corrections and clarifications based on N3 proposal. This CR alligns stage 1 with rel 99 system functionality.

Clauses affected: 3.1.X

Other specs affected:

Other 3G core specifications	[ ]	?	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.

3.1 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 42
2,4 kbit/s	Asynch, Synch	3,1 kHz	NT or T	Note 2 and 4
4,8 kbit/s	Asynch, Synch	3,1 kHz	NT or T	note 2 and 4
9,6 kbit/s	Asynch, Synch	3,1 kHz	NT or T	Note 5
14,4 kbit/s	Asynch, Synch	3,1 kHz	NT or T	Note 5
19,2 kbit/s	Asynch, Synch	3,1 kHz	NT or T	Note 5
28,8 kbit/s	Asynch, Synch	3,1 kHz	NT or T	
~~33,6 kbit/s~~	~~Asynch, Synch~~	~~3.1 kHz~~	~~NT or T~~	
	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.

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 ~~Note 2~~
2,4 kbit/s	Asynch, Synch	V.110	NT or T	Note 2 and 3
4,8 kbit/s	Asynch, Synch	V.110	NT or T	Note 2 and 3
9,6 kbit/s	Asynch, Synch	V.110	NT or T	Note 2 and 4
14,4 kbit/s	Asynch, Synch	V.110	NT or T	Note 4
19,2 kbit/s	Asynch, Synch	V.110	NT or T	Note 4
28,8 kbit/s	Asynch, Synch	V.110	NT or T	
38,4 kbit/s	Asynch, Synch	V.110	NT or T	Note 4
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.

3.1.3 X.31 Flag Stuffing UDI

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
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	note
NOTE: 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.					