ETSI TS 122 002 V14.0.0 (2017-03)



Digital cellular telecommunications system (Phase 2+) (GSM);
Universal Mobile Telecommunications System (UMTS);
Circuit Bearer Services (BS) supported by a Public Land
Mobile Network (PLMN)
(3GPP TS 22.002 version 14.0.0 Release 14)



Reference
RTS/TSGS-0122002ve00

Keywords
GSM,UMTS

ETSI

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Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

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Foreword

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Foreword

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

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0 Scope

The present document defines a set of Circuit Bearer Services to be provided to PLMN subscribers by a PLMN itself and in connection with other networks. This TS should also be used as a reference for defining the corresponding required mobile network capabilities.

0.1 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document.*
- [1] TS 41.004: "Digital cellular telecommunications system (Phase 2+); Abbreviations and acronyms".
- [2] TS 22.001: "Principles of circuit telecommunication services supported by a GSM Public Land Mobile Network (PLMN)".
- [3] TS 22.004: "General on supplementary services".
- [4] TS 27.001: "General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)".
- [5] TS 27.002: "Terminal Adaptation Functions (TAF) for services using asynchronous bearer capabilities".
- [6] TS 27.003: "Terminal Adaptation Functions (TAF) for services using synchronous bearer capabilities".
- [7] TS 27.005: "Use of Data Terminal Equipment Data Circuit terminating Equipment (DTE DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)".
- [8] TS 29.002: " Mobile Application Part (MAP) specification".
- [9] TS 29.007: "General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)".
- [10] TS 29.010: "Information element mapping between Mobile Station Base Station System and BSS Mobile-services Switching Centre (MS BSS MSC) Signalling procedures and the Mobile Application Part (MAP)".
- [11] TS 29.011: " Signalling interworking for supplementary services".
- [12] ITU-T Recommendation V.120: "Support by an ISDN of data terminal equipments with V-series type interface with provision for statistical multiplexing".
- [13] TR 21.905: "Vocabulary for 3GPP Specifications"

0.2 Abbreviations

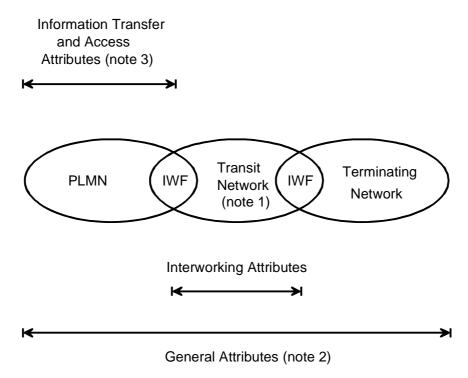
Abbreviations used in this TS are listed in TS 41.004 [1] and TR 21.905 [13].

1 Framework for defining Circuit Bearer Services

Bearer Services are described by attributes, which are intended to be independent. These attributes are described and defined in TS 22.001 [2]. They are grouped into four categories:

- i) Information transfer attributes, which characterize the network capabilities for transferring information from a user access point in a PLMN to a user access point in another network. (Refer to TS 22.001 [2]).
- ii) Access attributes, which describe the means for accessing network functions or facilities as seen at the access point in the PLMN (see TS 22.001 [2]).
- iii) Interworking attributes, which describe properties of the terminating network and its access point. The terminating network may include another PLMN or the originating PLMN.
- iv) General attributes, which deal with the service in general.

Figure 1 shows the relation between the groups of attributes and their fields of applicability.



- NOTE 1: A transit network may not exist for a Bearer Service.
- NOTE 2: Communication may be established from either end.
- NOTE 3: The information transfer and access attributes of a Bearer Service relate to a direct peer-to-peer communication of:
 - TE to TE;
 - TE to a network gateway (supporting, for example, PSTN interworking); or
 - network gateway to a TE.

Figure 1: Relation between the groups of attributes and fields of applicability

The following table lists the individual attributes in each of the four groups. The Bearer Service definitions in this specification are based on the "Minimal Set" of attributes.

Table 1: List of Bearer Service attributes

	Minimal Set
Information Transfer Attributes	
Information Transfer Mode	Х
Information Transfer Rate	X
Information Transfer Capability	X
Establishment of Communication	X
Symmetry	X
Communication Configuration	X
Data Compression	
Access Attributes	
Access Channel and Rate	
Signalling Access Protocols	
Information Access Protocols	
Information Access Structure	X
Information Access Rate	X
Interworking Attributes	
General Attributes	
Supplementary Services Provided	
Quality of Service	X
Operational and Commercial	

Attributes that are not part of the minimal set provide further technical detail and are required to fully define the use of each Bearer Service.

See specifications [4], [5], [6], [7] for information about the Signalling Access Protocols, Information Access Protocols and related access attributes.

Supplementary services are defined in TS 22.004 [3].

Intercommunication is required with services in the PSTN, ISDN and other PLMNs. The capabilities that describe the Interworking Attributes are described in specifications [8] to [9] and [15].

2 Bearer Service categories

All Bearer Service categories provide information transfer between the reference points and allow the use of sub-rate information streams which are rate-adapted.

The Bearer Services can be grouped into the following categories:

- Unrestricted Digital Information (UDI);

Provides the transfer of unrestricted digital information.

- 3,1 kHz (External to the PLMN);

Used to select a "3,1 kHz audio" interworking function at the MSC. This service category is used when interworking with the ISDN or PSTN "3,1 kHz audio" service and includes the capability to select a modem at the interworking function. "External to the PLMN" indicates that the "3,1 kHz audio" service is only used outside of the PLMN, in the ISDN/PSTN. The connection within the PLMN, user access point to the interworking function, is an unrestricted digital connection.

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";

Note 1:

Information Transfer Rate: Not applicable (note 1);

Establishment of Communication: "Demand";

Symmetry: "Bi-directional Symmetric";

Communication Configuration: "Point to point".

NOTE 1: 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 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.

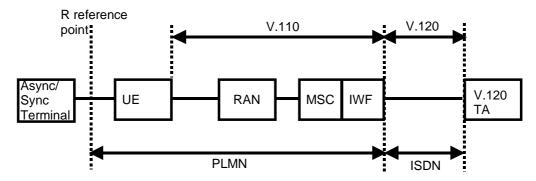


Figure 2: Model of V.120 Interworking

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

Bearer Service Information **QOS Attribute** Bearer Access Access Rate Notes Service Name Structure **Transfer** Number Capability 3.1 kHz, UDI, 20 Asynchronous Asynch note 1 NT / T General Bearer RDI Service 30 Synchronous General Synch note 1 3.1 kHz, UDI, Bearer Service RDI

This General Bearer is independent of any nominal rate. It is elaborated in more detail in subclause 3.1

Table 2

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 BS 20 (asynchronous services)

3.1.1.1 BS 20 T (transparent asynchronous services)

3.1.1.1.1 BS 20 transparent in regular mode for analogue interworking

Fixed Network User Rate	Access Structure	Information Transfer Capability	Rate Adaptation	QoS attributes	UTRAN	GERAN lu mode	GERAN A/Gb mode	Notes
0.3 kbit/s	Asynch	3,1 kHz	-	T	-	-	Supported	
1.2 kbit/s	Asynch	3,1 kHz	-	Т	-	-	Supported	
2.4 kbit/s	Asynch	3,1 kHz	-	Т	-	-	Supported	
4.8 kbit/s	Asynch	3,1 kHz	-	Т	-	-	Supported	
9.6 kbit/s	Asynch	3,1 kHz	-	Т	-	-	Supported	
14.4 kbit/s	Asynch	3,1 kHz	-	Т	-	-	Supported	
19.2 kbit/s	Asynch	3,1 kHz	-	Т	-	-	Supported	
28.8 kbit/s	Asynch	3,1 kHz	-	Т	Supported	Supported	Supported	

3.1.1.1.2 BS 20 transparent in regular mode for digital interworking

Fixed Network User Rate	Access Structure	Information Transfer Capability	Rate Adaptation	QoS Attribute	UTRAN	GERAN lu mode	GERAN A/Gb mode	Notes
0.3 kbit/s	Asynch	UDI	V.110	Т	-	-	Supported	
1.2 kbit/s	Asynch	UDI	V.110	Т	-	-	Supported	
2.4 kbit/s	Asynch	UDI	V.110	Т	-	-	Supported	
4.8 kbit/s	Asynch	UDI	V.110	Т	-	-	Supported	
9.6 kbit/s	Asynch	UDI	V.110	Т	-	-	Supported	
14.4 kbit/s	Asynch	UDI	V.110	Т	-	-	Supported	
19.2 kbit/s	Asynch	UDI	V.110	Т	-	-	Supported	
28.8 kbit/s	Asynch	UDI	V.110	Т	-	-	Supported	
38.4 kbit/s	Asynch	UDI	V.110	Т	-	-	Supported	

3.1.1.2 BS 20 NT (non-transparent asynchronous services)

3.1.1.2.1 BS 20 non-transparent in regular mode for analogue interworking

Fixed Network User Rate	Access Structure	Information Transfer Capability	Rate Adaptation	QoS attributes	UTRAN	GERAN lu mode	GERAN A/Gb mode	Note
0.3 kbit/s	Asynch	3,1 kHz	-	NT	Supported	Supported	Supported	Note 2
1.2 kbit/s	Asynch	3,1 kHz	-	NT	Supported	Supported	Supported	Note 2
2.4 kbit/s	Asynch	3,1 kHz	-	NT	Supported	Supported	Supported	Note 2
4.8 kbit/s	Asynch	3,1 kHz	-	NT	Supported	Supported	Supported	Note 2
9.6 kbit/s	Asynch	3,1 kHz	-	NT	Supported	Supported	Supported	
14.4 kbit/s	Asynch	3,1 kHz	-	NT	Supported	Supported	Supported	
19.2 kbit/s	Asynch	3,1 kHz	-	NT	Supported	Supported	Supported	
28.8 kbit/s	Asynch	3,1 kHz	-	NT	Supported	Supported	Supported	
	Asynch	3,1 kHz	-	NT	Supported	Supported	Supported	Note 1

NOTE 1: 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 2: In case of UTRAN and in GERAN Iu mode the FNURs 300, 1200, 2400 and 4800 bit/s towards the fixed network can be provided only with modem type = 'Autobauding Type 1' is selected.

3.1.1.2.2 BS 20 non-transparent in regular mode for digital interworking

Fixed Network	Access Structure	Information Transfer	Rate Adaptation	QoS Attribute	UTRAN	GERAN lu mode	GERAN A/Gb mode	Notes
User Rate		Capability	-					
0.3 kbit/s	Asynch	UDI	V.110	NT	Supported	Supported	Supported	Note 1
1.2 kbit/s	Asynch	UDI	V.110	NT	Supported	Supported	Supported	Note 1
2.4 kbit/s	Asynch	UDI	V.110	NT	Supported	Supported	Supported	Note 1
4.8 kbit/s	Asynch	UDI	V.110	NT	Supported	Supported	Supported	Note 1
9.6 kbit/s	Asynch	UDI	V.110	NT	Supported	Supported	Supported	
14.4 kbit/s	Asynch,	UDI	V.110	NT	Supported	Supported	Supported	
19.2 kbit/s	Asynch	UDI	V.110	NT	Supported	Supported	Supported	
28.8 kbit/s	Asynch	UDI	V.110	NT	Supported	Supported	Supported	
38.4 kbit/s	Asynch	UDI	V.110	NT	Supported	Supported	Supported	

NOTE 1: In case of UTRAN and in GERAN Iu mode the user rates 300, 1200, 2400 and 4800 bit/s towards the fixed network can be provided only for mobile terminated calls.

Fixed	Access	Information	Rate	QoS Attribute	UTRAN	GERAN lu	GERAN A/Gb mode	Notes
Network User Rate	Structure	Transfer Capability	Adaptation	Attribute		mode	A/Gb mode	
1.2 kbit/s	Asynch	UDI / RDI	V.120	NT	Supported	Supported	Supported	Note 2
2.4 kbit/s	Asynch	UDI / RDI	V.120	NT	Supported	Supported	Supported	Note 2
4.8 kbit/s	Asynch	UDI / RDI	V.120	NT	Supported	Supported	Supported	Note 2
9.6 kbit/s	Asynch	UDI / RDI	V.120	NT	Supported	Supported	Supported	
14.4 kbit/s	Asynch	UDI / RDI	V.120	NT	Supported	Supported	Supported	
19.2 kbit/s	Asynch	UDI / RDI	V.120	NT	Supported	Supported	Supported	
28.8 kbit/s	Asynch	UDI / RDI	V.120	NT	Supported	Supported	Supported	Note 1
38.4 kbit/s	Asynch	UDI / RDI	V.120	NT	Supported	Supported	Supported	
48 kbit/s	Asynch	UDI / RDI	V.120	NT	Supported	Supported	Supported	
56 kbit/s	Asynch	UDI	V.120	NT				

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

NOTE 2: In case of UTRAN and in GERAN Iu mode the user rates 1200, 2400 and 4800 bit/s toward the fixed network can be provided only for mobile terminated calls.

3.1.1.2.3 BS 20 non-transparent for PIAFS

Fixed Network User Rate	Access Structure	Information Transfer Capability	Rate Adaptation	QoS Attribute		GERAN lu mode	GERAN A/Gb mode	Notes
32 kbit/s	Asynch	UDI	PIAFS	NT	Supported	-	-	
64 kbit/s	Asynch	UDI	PIAFS	NT	Supported	-	-	

3.1.1.2.4 BS 20 non-transparent for Frame Tunnelling Mode

Fixed Network User Rate	Access Structure	Information Transfer Capability	Rate Adaptation	QoS Attribute	UTRAN	GERAN lu mode	GERAN A/Gb mode	Notes
56kbit/s	Asynch	RDI	X.31 flag stuffing	NT	Supported	Supported	Supported	
64 kbit/s	Asynch	UDI	X.31 flag stuffing	NT	Supported	Supported	Supported	

3.1.2 BS 30 (synchronous services)

3.1.2.1 BS 30 T (transparent synchronous services)

3.1.2.1.1 BS 30 transparent in regular mode for analogue interworking

Fixed Network User Rate	Access Structure	Information Transfer Capability	Rate Adaptatio n	QoS attributes	UTRAN	GERAN lu mode	GERAN A/Gb	Notes
1.2 kbit/s	Synch	3,1 kHz	-	Т	-	-	Supported	
2.4 kbit/s	Synch	3,1 kHz	-	T	-	-	Supported	
4.8 kbit/s	Synch	3,1 kHz	-	Т	-	-	Supported	
9.6 kbit/s	Synch	3,1 kHz	-	Т	-	-	Supported	
14.4 kbit/s	Synch	3,1 kHz	-	Т	-	-	Supported	
19.2 kbit/s	Synch	3,1 kHz	-	T	-	-	Supported	
28.8 kbit/s	Synch	3,1 kHz	-	Т	Supported	Supported	Supported	

3.1.2.1.2 BS 30 transparent in regular mode for digital interworking

Fixed Network User Rate	Access Structure	Information Transfer Capability	Rate Adaptatio n	QoS Attribute	UTRAN	GERAN lu mode	GERAN A/Gb mode	Notes
1.2 kbit/s	Synch	UDI	V.110	Т	-	-	Supported	
2.4 kbit/s	Synch	UDI	V.110	Т	-	-	Supported	
4.8 kbit/s	Synch	UDI	V.110	Т	-	-	Supported	
9.6 kbit/s	Synch	UDI	V.110	Т	-	-	Supported	
14.4 kbit/s	Synch	UDI	V.110	Т	-	-	Supported	
19.2 kbit/s	Synch	UDI	V.110	Т	-	-	Supported	
28.8 kbit/s	Synch	UDI	V.110	Т	-	-	Supported	
38.4 kbit/s	Synch	UDI	V.110	Т	-	-	Supported	
48 kbit/s	Synch	UDI	V.110	Т	-	-	Supported	
56 kbit/s	Synch	UDI	V.110	Т	Supported	Supported	Supported	
56 kbit/s	Synch	RDI	-	Т	Supported	Supported	Supported	
64 kbit/s	Synch	UDI	-	Т	Supported	Supported	Supported	

3.1.2.1.3 BS 30 transparent for Multimedia

Fixed Network User Rate	Access Structure	Information Transfer Capability	Rate Adaptation	QoS Attribute	UTRAN	GERAN lu mode	GERAN A/Gb mode	Notes
28.8 kbit/s	Synch	3.1kHz Audio	H.223 & H.245	Т	Supported	Supported	Supported	
32.0 kbit/s	Synch	UDI	H.223 & H.245	Т	Supported	Supported	Supported	
33.6 kbit/s	Synch	3.1kHz Audio	H.223 & H.245	Т	Supported	Supported	Supported	Note 1
56 kbit/s	Synch	RDI	H.223 & H.245	Т	Supported	Supported	Supported	
64 kbit/s	Synch	UDI	H.223 & H.245	Т	Supported	Supported	Supported	

NOTE 1: 33.6kbit/s FNURs is applicable only for UTRAN.

Annex A (informative): Change history

Change history											
TSG SA#	SA Doc.	SA1 Doc	Spec	CR	Rev	Rel	Cat	Subject/Comment	Old	New	WI
Jun 1999			02.02					Transferred to 3GPP SA1	8.0.0	3.0.0	
SP-05	SP-99479	S1-99608	22.002	001		R99	D	Editorial changes for alignment	3.0.0	3.1.0	
SP-05	SP-99446	S1-99659	22.002	002		R99	В	Bearer Services	3.0.0	3.1.0	
SP-06	SP-99520	S1-991008	22.002	003		R99	В	Addition of new general bearer service user data characteristics for 33.6kbit/s modem, FTM and multimedia calls	3.1.0	3.2.0	
SP-06	SP-99520	S1-991075	22.002	004		R99	С	22.002 made only applicable to CS Domain.	3.1.0	3.2.0	
SP-07	SP-000054	S1-000132	22.002	005		R99	F	Corrections on 3,1 kHz Audio support	3.2.0	3.3.0	
SP-08	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	
SP-09	SP-000371	S1-000561	22.002	007		R99	F	32 kbit/s UDI/RDI multimedia in GSM	3.4.0	3.5.0	
SP-09	SP-000390	S1-000595	22.002	800		R4	С	Deletion of bearer service BS 30 NT	3.4.0	4.0.0	
SP-11	SP-010039	S1-010253	22.002	010		Rel-4	С	CR to 22.002 clarification on Circuit Switched Bearer Services in UMTS	4.0.0	4.1.0	CS Bearers in UMTs
SP-11	SP-010040	S1-010254	22.002	011		Rel-4	D	Restructuring of 22.002	4.0.0	4.1.0	CS Bearers in UMTs
SP-11	SP-010040	S1-010266	22.002	012		Rel-4	D	Restructuring of tables in section 3.1	4.0.0	4.1.0	CS Bearers in UMTs
SP-12	SP-010257	S1-010357	22.002	013		Rel-4	F	Corrections to erroneous implementation of CRs SP-010039 and SP-010040 to 22.002.	4.1.0	4.2.0	TEI4
SP-16	SP-020244	S1-021076	22.002	014		Rel-5	F	CR to 22.002 Correction of terminology and references	4.2.0	5.0.0	TEI5
SP-26	SP-040744	S1-040997	22.002			Rel-6		Updated from Rel-5 to Rel-6	5.0.0	6.0.0	
SP-36			22.002			Rel-7		Updated from Rel-6 to Rel-7	6.0.0	7.0.0	
SP-42	-	-				Rel-8		Updated from Rel-7 to Rel-8	7.0.0	8.0.0	
2009-12	-	-	-	-	-	-	-	Update to Rel-9 version (MCC)	8.0.0	9.0.0	
2011-03	-	-	-	-	-	-	-	Update to Rel-10 version (MCC)	9.0.0	10.0.0	
2012-09	-	-	-	-	-	-	-	Update to Rel-11 version (MCC)	10.0.0	11.0.0	
2014-10	-	-	-	1-	-	-	-	Update to Rel-12 version (MCC)	11.0.0	12.0.0	
2015-12								Update to Rel-13 version (MCC)	12.0.0	13.0.0	
2017-03	-	-	-	1-	1-	-	1-	Updated to Rel-14 by MCC	13.0.0	14.0.0	

History

Document history								
V14.0.0	March 2017	Publication						