Technical Specification Group Services and System Aspects **TSGS#15(02)**01210164 Meeting #15, Cheju Island, Korea, 11-14 March 2002

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S	pec	Title:	Circuit 7 (PLMN)		vices s	suppo	ted b	y a Pu	ıblic L	and M	obile l	Network	¥
For <u>HELP</u> on	using	this for	m, see k	ottom	of this	page	or loo	k at th	е рор	o-up te	xt ove	r the ¥ syn	nbols.
Proposed change	affec	ts: ૠ	(U)SI	М	ME/	UE X	Ra	adio Ad	ccess	Netwo	ork X	Core Ne	twork X
Title:	€ Su _l	pport o	f Legacy	/ Trans	ceiver	s in G	ERAN	1					
Source:	€ Sie	mens,	Nortel N	letwork	(S								
Work item code: 8	€ AM	IR								Date:	20	02-03-07	
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Reason for chang	ve: #	supporting of the chicomple AMR	orting luidecision GERAN all be no annel coex. There 12.2.	mode. regarding the lotted that being is refore a	ng EFF issue of at EFR different a netwo	R was of what and went, work su	a res t is kr AMR th the oporti	ult of a nown a 12.2 kt AMR ng EF	a long as lega bps ar 12.2 R can	discuracy Trace the second being unot be	ssion of ansce same significations in a signification considerates and a signification considerate and a signification considerates and a signification considerate and a signification considerates and a signification considerate and a signification considerates and a signification considerate and a signification considerate and a signification considerate and a signification considerates and a	of over 1 ye	ear in dec, but e upport
Summary of chan	ge: #	1.) a l Band	JE supported sup	orting C nd Enh	GERAN anced	Full R	ate.					s: for AMR t one of the	
Consequences if not approved:	*	essen hardw If not a	tial that are.	introdu his wou	ction o	of new ate a	servio situati	ces do on wh	es no ere th	t requi	re rep	and it is the lacement c	of this
Clauses affected:	ж	A.1.1											
Other specs affected:	*	Ot Te	ther core est speci &M Spec	fication	ns	ıs	æ						
Other comments:	\mathfrak{R}												

First Modified Section

A.1 Individual Teleservices

A.1.1 Telephony

Γeles	service 1	1, Telephony	ý							
	1.	1.1 Type or	r user information		speech					
4	HLC	1.2 Layer 4	4 protocol functions		-					
Γ		1.3 Layer 5	5 protocol functions		-					
•		1.4 Layer 6	5 protocol functions		-					
2		1.5 Layer 7	7 protocol functions		-					
	2.	2.1	2.1.1 Information transfer capabil	ity	speech (digital representation)					
3	LLC		2.1.2 Information transfer mode		circuit					
J		Inform	2.1.3 Information transfer rate		not applicable					
		transfer	2.1.4 Structure		not applicable					
E			2.1.5 Establishment of connection	l	demand MO MT					
3			2.1.6 Communication configuration	on	point-to-point					
			2.1.7 Symmetry		bidirectional symmetry					
		2.2	2.2.1 Signalling access		manual					
		Access	2.2.2 Information access	rate	full rate/half rate					
		at UE	(TS 22.001)	interface						
		2.3	2.3.1 Visible network type		PSTN/ISDN/ -PLMN					
		Inter-	2.3.2 National/Internat. interworks	ing	international/national					
		working	2.3.3 Interface of TE to terminating	ng	2 wire, analogue	4 wire S (B+B+D)	ME			
	3.	3.1 Su	pplementary service provided		TS 22.004					
	Gen	3.2 Quality	of service							

Comments:

This service provides the transmission of speech information and audible signalling tones of the PSTN/ISDN. In the PLMN and the fixed network processing technique appropriate for speech such as analogue transmission, echo cancellation and low bit rate voice encoding may be used. Hence, bit integrity is not assured.

- 1) Transparency for telephone signalling tones is provided.
- 2) Transparency for voice band facsimile signals is not mandatory. (Appropriate bearer services see TS 22.002 [3].)
- 3) Transparency for end to end speech encryption is not mandatory. If a user needs to apply this technique an appropriate bearer service (TS 22.002 [3]) can be used.
- 4) Transmission of DTMF is provided in the mobile to fixed direction (e.g. for controlling voice mail boxes) during any time of an established call.

- 5) In A/Gb mode of operation (GERAN) speech teleservices may be provided using the Full Rate (full rate, version 1), Enhanced Full Rate (full rate, version 2), Half Rate (half rate, version 1), Adaptive Multirate (AMR) or Wideband Adaptive Multirate (AMR-WB) speech codecs. The default speech codec to provide speech service in this case is Full Rate.
- 6) In <u>UTRAN In mode of operation (UTRAN and GERAN)</u> speech teleservices may be provided using the Adaptive Multirate (AMR) or Wideband Adaptive Multirate (AMR-WB) speech codecs. The default speech codec to provide speech service in this case is AMR.
- 7) In GERAN Iu mode of operation speech teleservices may be provided using the Adaptive Multirate (AMR) or Wideband Adaptive Multirate (AMR-WB) or Enhanced Full Rate (EFR) speech codecs. Both the Narrow Band AMR codec family (Full Rate AMR and Half Rate AMR) and the EFR codec shall be supported by the UE. The network shall either support at least onethe AMR mode or the EFR codec.

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