

Source: TSG SA1

Title: CRs to Services & Service capabilities (22.105)

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-000203	S1-000364	22.105	024		R99	F	Clarification of requirement in TS 22.105 for Delay	3.8.0	3.9.0
SP-000203	S1-000442	22.105	025		R99	F	Access dependent services	3.8.0	3.9.0

TSG-SA Working Group 1 (Services) meeting #8
Beijing, 10 - 14 April 2000

TSG S1 000364
Agenda Item:

<h2 style="margin: 0;">CHANGE REQUEST</h2>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
22.105	CR	024
GSM (AA.BB) or 3G (AA.BBB) specification number ?		? CR number as allocated by MCC support team
For submission to: SA#8 <i>list expected approval meeting # here ?</i>		Current Version: 3.8.0
for approval <input checked="" type="checkbox"/>		strategic <input type="checkbox"/> (for SMG use only)
for information <input type="checkbox"/>		non-strategic <input checked="" type="checkbox"/>

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: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: SA1 **Date:** 13/4/00

Subject: Clarification of requirement in TS 22.105 for Delay

Work item:

Category:	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	Release:	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
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(only one category shall be marked with an X)

Reason for change: Clarification of requirement by addition of explanatory note

Clauses affected: 5.5

Other specs affected:	Other 3G core specifications <input type="checkbox"/> ? Other GSM core specifications <input type="checkbox"/> ? MS test specifications <input type="checkbox"/> ? BSS test specifications <input type="checkbox"/> ? O&M specifications <input type="checkbox"/> ?	List of CRs: <input type="text"/> List of CRs: <input type="text"/> List of CRs: <input type="text"/> List of CRs: <input type="text"/> List of CRs: <input type="text"/>
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Other comments:

5.5 Supported End User QoS

This section outlines the QoS that shall be provided to the end user / applications. This section defines QoS requirements from end to end. The values in the tables are end to end, including mobile to mobile calls and satellite components. Figure 2 below summarises the major groups of application in terms of QoS requirements. Applications and new applications may be applicable to one more groups.

Error tolerant	Conversational voice and video	Voice messaging	Streaming audio and video	Fax
Error intolerant	Telnet, interactive games	E-commerce, WWW browsing,	FTP, still image, paging	E-mail arrival notification
	Conversational (delay <<1 sec)	Interactive (delay approx 1 sec)	Streaming (delay <10 sec)	Background (delay >10 sec)

The following tables further elaborate UMTS end user / application QoS requirements.

Table 1: End-user Performance Expectations - Conversational / Real-time Services

Medium	Application	Degree of symmetry	Data rate	Key performance parameters and target values		
				One-way Delay	Delay Variation	Information loss
Audio	Conversational voice	Two-way	4-25 kb/s	<150 msec preferred <400 msec limit note 1	< 1 msec	< 3% FER
Video	Videophone	Two-way	32-384 kb/s	< 150 msec preferred <400 msec limit note 1 Lip-synch : < 100 msec		< 1% FER
Data	Telemetry - two-way control	Two-way	<28.8 kb/s	< 250 msec	N.A	Zero
Data	Interactive games	Two-way	< 1 KB	< 250 msec	N.A	Zero
Data	Telnet	Two-way (asymmetric)	< 1 KB	< 250 msec	N.A	Zero

Note 1 This maximum delay applies to a mobile to mobile call. In the case of a mobile to fixed call the delay should be half this figure i.e. 200msec.

TSG-SA WG 1 (Services) meeting #9TSG S1 (00) 442
 Taastrup, Denmark 17th to 21st July 2000

Agenda Item:

CHANGE REQUEST

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

22.105 CR 025

Current Version: **3.8.0**

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
 for information

strategic (for SMG use only)
 non-strategic

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: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: Nokia **Date:** 5/6/00

Subject: Access dependent services

Work item:

Category:	F Correction <input type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input checked="" type="checkbox"/> D Editorial modification <input type="checkbox"/>		Release:	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
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(only one category shall be marked with an X)

Reason for change: Alignment of access dependent services with stage 2/3 specifications of release 99.

Clauses affected: 10

Other specs affected:	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	? ? ? ? ?	List of CRs: List of CRs: List of CRs: List of CRs: List of CRs:
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Other comments:



help.doc

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

10 Access dependent services and features

This section describes the features that will be dependent on the mode of radio access.

In general different access networks provide different capabilities with different QoS.

- Multicall, as specified in TS 22.135 [11], is supported only via UTRAN.
- Packet switched traffic using GPRS over GERAN will have a maximum rate in the order of 384kb/sec.
- Packet switched traffic using UTRAN will have a maximum rate in the order of 2Mb/sec.
- ASCI teleservices, TS 22.003 [3] are only available in GERAN.
- SoLSA feature is only available in GERAN.
- The accuracy of the determination of location may differ between the various access technologies.
- At GERAN reception of CBS messages for a UE is not supported if it is connected in the CS domain or in the PS domain when data is currently transmitted.
- ~~Non-transparent (NT) fax as specified in TS 22.003 [3] is only supported by UTRAN.~~
- Facsimile (both Transparent (T) and Non-transparent (NT) modes) fax as specified in TS 22.003 [3] is only supported by GERAN.
- There are some differences at data rates and interworking scenarios between GERAN and UTRAN support of circuit bearer services . For further details see TS 22.002 [2].