ETSI TC SMG#29 ***TSG S#4 (99) 226***

Miami, Florida, USA 21st – 23rd June, 1999

Agenda Item: 5.1

Source: S1

Title: CRs on Emergency Service applied to 3G 22.100 and 3G 22.101

Document for: Information

Note: This document is presented for information unless an agreement is reached beforehand, then it will be presented for approval.

SA_Tdoc	Doc	Spec_	CR#	R	Vers	C	New	Topic	Title
SP-99226	373	22.100	A019		3.3.0	B	3.4.0	Emergency	Handling of Emergency Numbers: Adds a requirement to support an emergency call teleservice as defined in TS22.101

SA_Tdoc	Doc	Spec_	CR#	R	Vers	C	New	Topic	Title
SP-99226	395	22.101	A020	7	3.5.0	B	3.6.0	Emergency	To route the call to the appropriate emergency service if more than one emergency number is supported in a country.

8.4 Emergency calls

UMTS shall support an emergency call teleservice as defined in GSM 02.03 (TS12), which fulfills the following additional service requirements:

- It shall be possible to establish an emergency speech call to the serving network. Emergency calls will be routed to the emergency services in accordance with national regulations (GSM 02.03). This may be based upon one or more default numbers stored in the ME (GSM 02.30). It may also be possible to establish an emergency call without the need to dial a dedicated number, such as by use of a 'red button', or a linkage to car air bag control. This functionality shall be available without a USIM being present (no other type of calls shall be accepted by an ME without USIM).

Note: It will be left to the national authorities to decide whether the network should accept emergency calls without the USIM.

- When a USIM is present, additional subscriber emergency call set-up MMI preferences may be provided (GSM 02.07).

- The Emergency call teleservice is required only if the MS supports telephony.

Further following requirement shall be fulfilled:

- When a USIM containing stored emergency numbers is present, only those numbers are identified as emergency numbers, i.e. default emergency numbers stored in the ME are ignored.

- The following emergency numbers shall be stored into ME: 000, 08, 112, 110, 911 and 999. (Additional numbers are FFS.)

- It shall be possible for the serving network to obtain the number, which was used to initiate the emergency call. This will allow the network the option to route the call to different emergency call centres if appropriate. If the dialed digits are not recognised as an emergency service by the serving network, the call shall be routed to the default emergency service.

3GPP TSG-S1
Hampton Court, UK
10-12 May 1999

Tdoc S1-99373

CHANGE REQUEST No : **A019**

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

Technical Specification GSM 22.100 Version: 3.3.0

Submitted to SA 4 *list SMG plenary meeting no. here ↑*
for approval **X**
for information
without presentation ("non-strategic")
with presentation ("strategic") **X**

PT SMG CR cover form is available from: http://docbox.etsi.org/tech-org/smg/Document/smg/tools/CR_form/crf28_1.zip

Proposed change affects: *(at least one should be marked with an X)* SIM **X** ME **X** Network **X**

Work item:

Source: S1 **Date:**

Subject: Support of Emergency Call in UMTS Phase 1, R'99

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

F	Correction		**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature	**X**		Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	

Reason for change: Adds a requirement to support an emergency call teleservice as defined in TS22.101

Clauses affected: 6

Other specs affected:

Other releases of same spec	→ List of CRs:	
Other core specifications	→ List of CRs:	
MS test specifications / TBRs	→ 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.

6.2. Bearer services

UMTS phase 1 shall support GSM phase 2+ Release '99 data bearer services :
***Circuit switched data*:** Circuit switched data services and "real time" data services shall be provided for interworking with the PSTN/ISDN so that the user is unaware of the access network used (UMTS and GSM access network or handover between access networks). Both transparent (constant delay) and non-transparent (zero error with flow control) services shall be supported. These data services shall operate with minimum loss of data on handover between the GSM access network and the UTRAN.
Packet switched data: Packet switched data services shall be provided for interworking with packet networks such as IP-networks and LANs. The standard shall provide mechanisms which ensure the continuity of packet based services upon handover e.g. between GSM and UMTS.

6.3 Emergency Call

UMTS Phase 1 R'99 shall support an emergency call teleservice as defined in [1].

7 UTRAN capabilities

NOTE : The term performance refers in this clause to the realisation of the QoS objectives inside the UTRAN.

UTRAN capabilities for UMTS are the complete set of bearer capabilities and bearer control specified in UMTS 22.05. The UTRAN shall have the following capabilities :

1) A UTRAN shall be contained within only one UMTS network. (In the case of a network with a phase 1 UMTS core network consisting of an evolved GSM core network, it shall be possible to connect the UTRAN to the GSM NSS and GPRS backbone infrastructures or only one of them.)

2) The UTRAN shall support the set-up, re-negotiation and clearing of connections with a range of traffic and performance characteristics. The re-negotiation may result from an upper layer request or a change in the radio conditions (handover, cell load modification,...) and may be mobile station or network initiated. It shall be possible for the UTRAN to apply the following traffic policing mechanisms such as :
   . connection admission control (CAC) during connection set-up and re-negotiation,
   . flow control (FC) on a connection during its lifetime,
   . usage parameter control (UPC) on a connection during its lifetime..

3) The UTRAN shall support a range of traffic and performance characteristics for the connectionless traffic.

4) The range of traffic and performance characteristics that shall be supported by UTRAN for connection oriented and connectionless traffic is indicated in TS 22.05 sections 5.2 to 5.4.

5) The UTRAN shall allow one mobile termination to handle more than one bearer service simultaneously and to have bearer services of different connection modes. It is nevertheless expected that the terminal and network capabilities will put some limitations on the number of bearer services that can be handled simultaneously. It shall be possible for each connection to have independent traffic and performance characteristics. It shall be possible for each connectionless message to have independent traffic and performance characteristics.

TSG-SA Working Group 1 (Services) meeting #3 *Post-TSGS1#3(99)395*

Hampton Court, UK 10th-12th May 1999 *Revision through multiple iterations of CR in Tdoc S1-99374*

(Recent Composite inputs from Tommi Kokkola, Dorine Ruant, JJDavidian, Alan Cox)
June 3rd, 1999

CHANGE REQUEST No : A020 R7 *Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.*

3GPP Technical Specification 22.101 Version: 3.5.0

Submitted to SA #4 *list SA plenary meeting no. here ↑* for approval **X** for information ; without presentation ("non-strategic") ; with presentation ("strategic") **X**

PT SMG CR cover form is available from: http://docbox.etsi.org/tech-org/smg/Document/smg/tools/CR_form/crf28_1.zip

Proposed change affects: *(at least one should be marked with an X)* SIM **X** ME **X** Network **X**

Work item:

Source: S1 **Date:** 25/5/99

Subject: Support of Emergency Calls in UMTS

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

F	Correction		**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature	**X**		Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	**X**

Reason for change: Adds a requirement for the network to able to obtain the number that a user has input for an emergency call. This will allow the network to route the call to the appropriate emergency service if more than one emergency number is supported in a country.

Clauses affected: 8.4

Other specs affected:

Other releases of same spec		→ List of CRs:
Other core specifications		→ List of CRs:
MS test specifications / TBRs		→ List of CRs:
BSS test specifications		→ List of CRs:
O&M specifications		→ List of CRs:

Other comments:

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

8.3 Security for the user

It should be possible for the user to authenticate the network when registering and before initiating a service if desired.
Steps shall be taken to ensure the privacy and integrity of sensitive information transferred between the user and all other entities; e.g. user identity and user traffic.

8.4 Emergency calls

~~A UMTS terminal capable of making emergency calls shall be able to do so when there is no UICC physically present. The terminal shall be responsible for ensuring that only emergency numbers are attempted when no UICC is present to prevent the misuse of network resources. It will be left to the national authorities to decide whether the network should accept such calls. In addition networks may also validate that only emergency calls are accepted when no UICC is inserted in the terminal.~~

UMTS shall support an emergency call teleservice as defined in GSM- 02.03 (TS12)~~02.03~~, which fulfills the following additional service requirements:

- It shall be possible to ~~identify a particular speech call as~~establish~~–~~ an emergency speech call to the serving network. Emergency calls will be routed to the emergency services in accordance with national regulations (GSM 02.03). This may be based upon one or more default numbers stored in the ~~UE~~ME (GSM 02.30). It may also be possible to establish an emergency call without the need to dial a dedicated number ~~based dedicated means~~, such as by use of a 'red button', or a linkage to car air bag~~s~~ control. This functionality shall be available without a USIM being present (no other type of calls shall be accepted by an ~~UE~~ME without USIM).

  Note: It will be left to the national authorities to decide whether the network should accept emergency calls without the USIM.

- When a USIM is present, additional ~~certain~~ subscriber ~~preferred~~ emergency call set-up MMI preferences may be provided (GSM 02.07).~~.~~

- The Emergency call teleservice is ~~only~~ required ~~to be provided by~~only if the ~~UM~~MS support~~sing~~ telephony.

~~, or some other methodIt shall be possible to initiate an emergency call when the USIM is not present (this may require a default number to be stored in the UE as above). The terminal shall be responsible for ensuring that only emergency numbers are attempted when no USIM is present to prevent the misuse of network resources.~~
Further following requirement shall be fulfilled:

- When a USIM ~~is present with~~ containing stored emergency numbers ~~stored~~ is present~~in USIM~~, only those numbers are identified as emergency numbers, i.e. default emergency numbers stored in the ~~UM~~ME are ignored.

- The f~~F~~ollowing emergency numbers shall be stored into ~~UM~~ME: 000, 08, 112, 110, 911 and 999. (Additional numbers are FFS.)

- It shall be possible for the serving network to obtain the number, which was used to initiate~~the user has input for~~ the emergency call. This will allow the network the option to route ~~optionally~~ the call to different emergency call centres if appropriate. If the dial~~l~~ed digits are not recognised as an emergency service by the serving network, the call shall be routed to the default emergency service.