Technical Specification Group Services and System Aspects **TSGS#17(02)0552**Meeting #17, Biarritz, France, 9-12 September 2002

Source: SA1

Title: Release 5 CRs to 22.101 on service delivery and emergency calls

Document for: Approval

Agenda Item: 7.1.3

SA Doc	Spec	CR	Rev	Phase	Cat	Subject		New	SA1 Doc
							Vers	Vers	
SP-020552	22.101	098	1	Rel-5	F	Clarification of IMS service delivery (for rel 5)	5.6.0	5.7.0	S1-021780
SP-020552	22.101	100	1	Rel-5	F	Additional download functionality to emergency call procedures	5.6.0	5.7.0	S1-021776

3GPP TSG-SA1 #17 Durango, US, 12 – 16 August '02

	С	HANGE	REQ	UE	ST	•		CR-Form-v7
*	22.101 CR	098	≋ rev	1	Ж	Current version:	5.6.0	¥
- 455								

For <u>HELP</u> on usir	g this form, see bottom of this page or look at the p	op-up text over the % symbols.
Proposed change aff	ects: UICC apps X ME X Radio Acce	ess Network Core Network X
Title:	Clarification of IMS service delivery	
Source: # 3	SA1 (IMS SWG)	
Work item code: 第	MS	Date: 第 13/08/2002
D		elease: # Rel-5 Use one of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)
Reason for change: Summary of change:	services. The current wording of stage 1 for IMS doesn's subscription.	t reflect explicitlythe need of a PS
Consequences if not approved:	Access to IMS service will remain ambigous an	d potentially misleading.
Clauses affected:	光 15.1	
Other specs affected:	Y N N Other core specifications N Test specifications O&M Specifications	

How to create CRs using this form:

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Other comments:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **%** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

- downloaded from the 3GPP server under $\underline{\text{ftp://ftp.3gpp.org/specs/}}$ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

15 Relationship between subscription and service delivery

15.1 Subscription

A subscription describes the commercial relationship between the subscriber and the service provider.

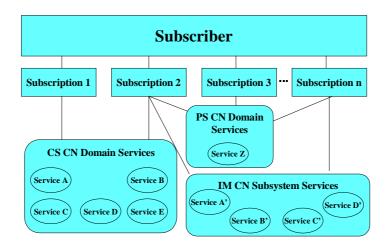


Figure 4: Subscriber, subscription and services relationship

A subscription to an-network-operator may provide the user with access to one or more domains. A Subscription shall identify the set of services, within particular domains, to which the user has access (see figure 3); each subscription may specify a different set of services. These services may be provided by the CS CN Domain and/or a PS CN Domain and/or an IM CN subsystem. Subscriptions relate to services such as Basic Services (e.g. Teleservices, Bearer services), GPRS services and IM-Services (IP-based multimedia services), which are typically provided by network operators, and to value added services which typically are provided by network operators and/or other entities that provide services to a subscription to IP Multimedia Services shall be dependent on a subscription to PS CN Domain services.

The subscription identifies:

- the services and related services information that are made available to the subscriber by the service provider;

In addition a subscription to a network operator may identify:

- the domains to which the user has been granted access by the network operator. In particular, the GPRS service profile and information on the allowed QoS parameter ranges shall be contained in the subscription.
- the identity of the subscriber within these domains.
 Note: The identity of a subscriber in the CS CN domain and PS CN domain (e.g. her IMSI) may potentially be different to her identity in the IM CN subsystem

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			CI	HANGE	REQ	UE	ST			,	JR-FUIII-VI
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For HELP on					_		at the	pop-up text	over the 3	€ sym	
Proposed change	e affec	ts:	UICC app	os# <mark></mark>	ME X	Rad	dio Ac	cess Networ	·k Co	re Net	twork X
Title:	€ Ad	ditiona	l downloa	ad functiona	lity to eme	ergen	су са	all procedure	S		
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Category:	Deta	F (cor A (cor B (add C (fun D (edi illed ex	rection) rresponds dition of fe actional mo itorial mod	odification of ification) of the above	on in an ear feature)		elease	Release: ₩ Use <u>one</u> of 2) R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	Rel-5 the followir (GSM Pha (Release 1) (Release 2) (Release 3) (Release 4) (Release 4) (Release 5) (Release 5)	se 2) (1996) (1997) (1998) (1999) (1)	ases:
Reason for chang	је: Ж	The current stage one requirement was recently changed in order to align it with the stage three specification of a particular mechanism. That mechanism does not work correctly, particularly when the GGSN is in the HPLMN.									
Summary of chan	ge: ૠ	This when	change a ther or no f emerge	CS domain adds the po t the dialled ncy numbe	to established to establish the same state of th	sh an at the s an E.	eme UE e emer	CN Subsyst rgency call. can be respo gency numb	ensible to o er accordi	decide	e e stored
Consequences if not approved:	*	solut	tions for p		full emerge			stem does n ervice via the			
Clauses affected:	ж	10.1	and 10.4								
Other specs affected:	¥	Y N X X	Other co	ore specific ecifications pecifications		ж					

S1-021776

Agenda Item: 10.3

Other comments:

SA1 has sent a liaison statement to SA2 asking about the practicality of implementing a solution for this requirement quickly in release 5.

How to create CRs using this form:

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10 Emergency Calls

10.1 General requirements

It shall be possible to establish an emergency speech call. Emergency calls will be routed to the emergency services in accordance with national regulations for where the subscriber is located. This may be based upon one or more default numbers stored in the ME. It shall be allowed to establish an emergency call without the need to dial a dedicated number to avoid the mis-connection in roaming case, such as menu, by use of a 'red button', or a linkage to a car air bag control. Emergency Calls shall be supported by the UE without a SIM/USIM being present. No other type than Emergency calls shall be accepted without a SIM/USIM.

The Emergency service is required only if the UE supports voice.

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

It shall be possible to initiate emergency calls to different emergency call centers, depending on the type of emergency. The following types of emergency calls shall be possible:

- Police
- Ambulance
- Fire Brigade
- Marine Guard
- Mountain Rescue
- Spare, at least [three] different types

When a SIM/USIM is present, subscriber specific emergency call set-up MMI shall be provided. The Home Environment operator shall specify preferred emergency call MMI(s) (e.g. 911 for US citizens or 110, 118 and 119 for Japanese citizens). This shall be stored in the SIM/USIM and the ME shall read this and use any entry of these digits to set up an emergency call. It shall be possible to store more than one instance of this field.

Note: Release '98 and earlier SIM cards have the capability to store additional emergency call set-up MMI. However in many cases this has not been used.

It shall be possible to tie any emergency call number, specified in the preferred emergency call MMI(s) above, to any single emergency call type or to any combination of emergency types. The association between emergency numbers and emergency call type shall be able to be programmed by the Home Environment operator into the SIM/USIM.

Example:

19	Police (Albania)
100	Police and Fire Brigade (Greek cities)
100	Ambulance and Fire Brigade (Belgium)
112	Police and Ambulance (Italy)
112	General emergency call, all categories (Sweden)
115	Fire Brigade (Italy)
114	Ambulance (Austria)

Note:

if the UE does not recognise the emergency call MMI(s) (i.e. the dialled number is not stored in SIM/USIM) but the serving network recognises the dialled number as an emergency call number used in the country, a normal call set up takes place over the radio interface and after the serving network has recognised the emergency number the call is routed as an emergency call.

When a SIM/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 in the ME for use when no emergency numbers are stored in the SIM: 000, 08, 112, 110, 911 and 999.

Note: Emergency numbers stored in the ME, for use when no emergency numbers are stored in the SIM, should not overlap with existing service numbers used by any operator.

The user friendly MMI which specifies the type of emergency directly (e.g. menu) should be supported for use in any (i.e. home or visited) PLMN to avoid the mis-connection in roaming case. This shall be allowed to both with and without SIM/USIM being present.

The following emergency numbers shall be stored in the ME for use without SIM/USIM: 000, 08, 112, 110, 118, 119, 911 and 999.

The serving network may download additional emergency numbers to the UE in order to ensure that local emergency numbers are known to the UE. The UE shall regard these emergency numbers as valid in that country (as identified by the MCC) and shall discard them when a new country is entered.

NEXT MODIFIED SECTION

10.4 Emergency calls when attached to an IM CN subsystem

Emergency calls are not supported via an IM CN subsystem.

If the UE does recognise the emergency call MMI(s) (i.e. the dialled number is stored in USIM/ME), then the UE shall use the CS CN domain to attempt to establish the emergency call..

If the UE does not recognise the emergency call MMI(s) (i.e. the dialled number is_not stored in USIM/) but the serving network recognises the dialled number as an emergency call number used in the country then the IM CN subsystem shall inform the UE to use a CS CN domain for emergency services.