

**3GPP TSG-CN1 Meeting #36
Seoul, Korea, 15-19 November 2004**

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Source: CN1
Title: WID, Emergency Call Enhancements for IP& PS Based Calls – stage 3
Agenda item: 9.4
Document for: APPROVAL

**3GPP TSG-CN1 Meeting #36
Seoul, Korea, 15-19 November 2004**

Tdoc N1-041692

Source: CN1
Title: WID, Emergency Call Enhancements for IP& PS Based Calls – stage 3
Agenda item: 8.3
Document for: APPROVAL

Work Item Description

Title

Emergency Call Enhancements for IP& PS Based Calls – stage 3

1 3GPP Work Area

	Radio Access
X	Core Network
	Services

2 Linked work items

(32045) PS domain and IMS impacts for supporting IMS Emergency calls
(32074) IMS enhancement for NGN

3 Justification

It shall be possible to establish an emergency call by IMS over the PS domain. Emergency calls will be routed to the emergency services in accordance with national regulations. This may be based upon one or more default numbers stored in the ME and/or USIM and information about the origin of the session. It shall be allowed to establish an IMS emergency session without the need to dial a dedicated number to avoid the mis-connection in roaming case, such as menu, or by automatic activation. This functionality shall be supported by the UE without a SIM/USIM being present. No other type of calls than emergency calls shall be accepted without a SIM/USIM.
The IM CN subsystem specific aspects of this WI are also relevant regarding the usage of IMS in the NGN environment

4 Objective

The objective of this WI is to study the functionalities required on the protocol level to meet the requirements as defined in TS 22.101, 23.060, 23.228 and other relevant specifications for emergency call handling in the IM CN Subsystem and in the PS domain.

Areas to be included are:

- 1 IM CN subsystem aspects to support IMS Emergency sessions
- 2 PS domain aspects to support IMS Emergency sessions

The IM CN Subsystem aspects and the PS domain aspects should be separated and progressed independently.

5 Service Aspects

As defined in TS 22.101 and other relevant specifications to include but not limited to:

The main focus is on:

- Support for SIP emergency calls in the IM CN Subsystem and related packet bearers

Points to be considered, too:

- Using the existing emergency numbering schemes
- Compliant with FCC mandates, European and other regulatory requirements
- Possibility to initiate emergency calls to different emergency call centers, depending on the type of emergency
- The function shall be supported when roaming

6 MMI-Aspects

As defined in TS 22.101 and other relevant specifications, it shall be possible to implement different MMIs to invoke emergency services. This can be for example the dialled number, a dedicated Menu, one or more dedicated buttons, etc.

7 Charging Aspects

None.

In accordance to 22.101, no impacts on charging are foreseen.

8 Security Aspects

To be determined.

9 Impacts

Affects:	UICC apps	ME	AN	CN	Others
Yes		X		X	
No	X		X		
Don't know					X

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
24.008		Emergency calls for the PS domain		TSG#29 September 2005		CN1 resp. Changes to PS domain due to emergency calls for the PS domain
29.060		Emergency calls for the PS domain		TSG#29 September 2005		CN4 resp. Changes to GTP due to emergency calls for the PS domain
24.229		Emergency calls for the IM CN Subsystem domain		TSG#29 September 2005		CN1 resp. Changes to IM CN Subsystem domain due to emergency calls
29.061		Emergency calls the IM CN Subsystem domain		TSG#29 September 2005		CN3 resp. Changes to the interworking between PLMN and PDNs due to emergency calls
29.163		Emergency calls the IM CN Subsystem domain		TSG#29 September 2005		CN3 resp. Additions to the IW due to emergency calls.

11 Work item rapporteur(s)

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12 Work item leadership

TSG-CN1

13 Supporting Companies

Ericsson, T-Mobil, TIM, Motorola, Fujitsu Limited, Lucent Technologies

14 Classification of the WI (if known)

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

N/A

14b The WI is a Building Block: parent Feature

PS domain and IMS impacts for supporting IMS Emergency calls (unique id 32045)

14c The WI is a Work Task: parent Building Block

N/A

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9 Impacts

Affects:	UICC apps	ME	AN	CN	Others
Yes		X		X	
No	X		X		
Don't know					X

Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime resp. WG	2ndary resp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject	Approved at plenary#		Comments	
24.008		PS-based Emergency calls <u>for the PS domain</u>	<u>TSG#29 September 2005</u> TSG#24 June 2004		CN1 resp. Changes to <u>PS domain</u> RIL-3 due to emergency calls for the PS domain	
29.060 24.228		<u>Emergency calls for the PS domain</u> Emergency calls for IMS	<u>TSG#29 September 2005</u> TSG#24 June 2004		CN4 resp. Changes to GTP due to <u>emergency calls for the PS domain</u> CN1 resp. Changes to IMS due to the <u>availability of a PS bearer for emergency calls</u>	
24.229		Emergency calls for <u>the IM CN Subsystem domain</u> IMS	<u>TSG#29 September 2005</u> TSG#24 June 2004		CN1 resp. Changes to IM <u>CN Subsystem domain</u> due to the availability of a PS bearer for emergency calls	
29.061		PS-based Emergency calls <u>the IM CN Subsystem domain</u>	<u>TSG#29 September 2005</u> TSG#24 June 2004		CN3 resp. Changes to the interworking between PLMN and PDNs due to emergency calls for the PS domain	
29.163		PS-based Emergency calls <u>the IM CN Subsystem domain</u>	<u>TSG#29 September 2005</u> TSG#24 June 2004		CN3 resp. Additions to the IW due to emergency calls.	
29.060		PS-based emergency calls	TSG#24 June 2004		CN4 resp. Changes to GTP due to emergency calls for the PS domain	

11 Work item rapporteur(s)

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14c The WI is a Work Task: parent Building Block

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