

**Source:** Ericsson  
**Title:** Emergency Call Enhancements for IP& PS Based Calls – stage 3  
**Agenda item:** 9.4  
**Document for:** Approval

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### Work Item Description

**Title:**

~~PS based~~ Emergency Call [Enhancements for IP& PS Based Calls – stage 3](#) ~~in Rel-5~~

**1 3GPP Work Area**

	Radio Access
X	Core Network
X	Services

**2 Linked work items**

-  
[\(1652\) PS domain and IM CN subsystem impact for supporting IMS emergency calls](#) ~~Emergency Call Enhancements (2527) – Emergency calls without UICC/SIM in networks with IMS~~

**3 Justification**

It shall be possible to establish an emergency call via 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. It shall be allowed to establish a PS emergency call without the need to dial a dedicated number to avoid the mis-connection in roaming case, such as menu, or a linkage to a car air bag control. ~~This functionality 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.~~ [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.](#)

**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 PS domain.

**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 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~~None.

~~In accordance to 33.102, no impacts on security are foreseen.~~

**9 Impacts**

<b>Affects:</b>	<b>USIM</b>	<b>ME</b>	<b>AN</b>	<b>CN</b>	<b>Others</b>
<b>Yes</b>	<del>X</del>	X		X	
<b>No</b>	<u>X</u>		<u>X</u>		
<b>Don't know</b>			<del>X</del>		

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

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
<del>22.101,</del>		<del>SIP Emergency Calls</del>			<del>TSG#14</del>	
<del>23.228</del>		<del>SIP Emergency Calls</del>			<del>TSG#14</del>	
<del>24.228</del>		<del>SIP Emergency Calls</del>			<del>TSG#14</del>	
24.008		SIP PS based Emergency Calls			TSG#2244 4 <del>SeptDec.</del> 2003	CN1 resp. Generic changes to RIL-3 due to emergency calls for the PS domain
24.228		SIP Emergency Calls for IMS			TSG#2244 4 <del>SeptDec.</del> 2003	CN1 resp. Changes to IMS due to the availability of a PS bearer for emergency calls
24.229		SIP Emergency Calls for IMS			TSG#2244 4 <del>SeptDec.</del> 2003	CN1 resp. Changes to IMS due to the availability of a PS bearer for emergency calls
<a href="#">29.061</a>		<a href="#">PS based emergency calls</a>			TSG#2244 <del>SeptDec.</del> 2003	CN3 resp. Generic changes to the interworking between PLMN and PDNs RIL-3 due to emergency calls for the PS domain
<a href="#">29.163</a>		<a href="#">PS based emergency calls</a>			TSG#2244 <del>SeptDec.</del> 2003	CN3 resp. Additions to the IW due to emergency calls.
<a href="#">29.060</a>		<a href="#">PS based emergency calls</a>			TSG#2244 <del>SeptDec.</del> 2003	CN4 resp. Is it FFS whether this spec is affected? Generic changes to GTP RIL-3 due to emergency calls for the PS domain

11 Work item rapporteurs

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12 Work item leadership

TSG-CN1

13 Supporting Companies

Ericsson, T-Mobile, ~~TIM~~ CSELT/SIM, Motorola, Fujitsu Limited, Lucent Technologies

14 Classification of the WI (if known)

Feature (go to 14a)
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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 IM CN subsystem impact for supporting IMS emergency calls](#)~~Emergency-call-enhancements~~ [\(unique id 1652\)](#)

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

N/A

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### 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**

(1652) PS domain and IM CN subsystem impact for supporting IMS emergency calls

**3 Justification**

It shall be possible to establish an emergency call via 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. It shall be allowed to establish a PS emergency call without the need to dial a dedicated number to avoid the mis-connection in roaming case, such as menu, or a linkage to a car air bag control. 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.

**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 PS domain.

**5 Service Aspects**

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The main focus is on:

- Support for SIP emergency calls and related packet bearers

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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.

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**9 Impacts**

<b>Affects:</b>	<b>USIM</b>	<b>ME</b>	<b>AN</b>	<b>CN</b>	<b>Others</b>
<b>Yes</b>		X		X	
<b>No</b>	X		X		
<b>Don't know</b>					

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

<b>New specifications</b>						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
<b>Affected existing specifications</b>						
Spec No.	CR	Subject			Approved at plenary#	Comments
24.008		PS based emergency calls			TSG#22 Dec. 2003	CN1 resp. Generic changes to RIL-3 due to emergency calls for the PS domain
24.228		Emergency calls for IMS			TSG#22 Dec. 2003	CN1 resp. Changes to IMS due to the availability of a PS bearer for emergency calls
24.229		Emergency calls for IMS			TSG#22 Dec. 2003	CN1 resp. Changes to IMS due to the availability of a PS bearer for emergency calls
29.061		PS based emergency calls			TSG#22 Dec. 2003	CN3 resp. Generic changes to the interworking between PLMN and PDNs due to emergency calls for the PS domain
29.163		PS based emergency calls			TSG#22 Dec. 2003	CN3 resp. Additions to the IW due to emergency calls.
29.060		PS based emergency calls			TSG#22 Dec. 2003	CN4 resp. It is FFS whether this spec is affected. Generic changes to GTP due to emergency calls for the PS domain

**11 Work item rapporteurs**

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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)
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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 IM CN subsystem impact for supporting IMS emergency calls (unique id 1652)**

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

N/A