

Source: CN1
Title: LS on updated WID for emergency call enhancements for IP & PS based calls
Agenda item: 5.1
Document for: INFORMATION

3GPP TSG-CN1 Meeting #28
Dublin, Ireland, 10 – 14 February 2003

Tdoc N1-030271

Release: Rel-6
Work Item: Emergency call enhancements

Source: CN1
To: SA1, SA2, SA3, CN, CN3, CN4, RAN2, RAN3, GERAN2, GERAN3, T3
CC:

Contact Person:

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Attachments: N1-030217 [WID for Emergency call enhancements for IP & PS based calls – stage 3]

1. Overall Description:

The existing WID for emergency call enhancements for IP & PS based calls has not been updated since March 2001 and needs a major revision. The previous version of the WID hold CN1 complete responsible for the service, to include stage 1 and stage 2 issues in addition to the stage 3. CN1 does not find it appropriate to have a WID that covers stage 1 and stage 2 issues, and is therefore proposing the following restructuring of the work:

- CN1 proposes that the parent feature 'Emergency call enhancements' (unique id 1652 in the work plan) is led by SA2 instead of CN1, and that a WID, if needed, is written.
- CN1 will not include the work for 'Emergency calls without UICC/SIM in networks with IMS, ID 2527' in the attached WID, but prefers to write a separate WID for this, as this is a separate feature, unless the WID controlled by SA2 will be updated to include stage 3 specifications.
- CN1 proposes that the work for stage 3 within the CN is described in a CN-wide WID, led by CN1. The work on stage 2 is not finished yet, but according to the ongoing discussions, CN1 has currently identified possible impacts in specifications under the control of CN1, CN3 and CN4.
- CN1 is not aware of possible impacts on the radio layer due to prioritisation of packet based bearers for emergency calls, but depending on the chosen solution those impacts may also affect the CN.
- As a result of LS from SA1 (S1-030247) 'LS on Rel 99 and later Emergency calls in case on UE attached to data only network', CN1 seeks guidance whether the CN1 WID as part of Rel-6 should also cover this scenario.

The proposed updated WID 'Emergency call enhancements for IP & PS based calls – stage 3' is attached for information.

2. Actions:

To SA1 group.

ACTION:

- a) CN1 asks SA1 whether the stage 3 aspects of 'emergency calls in case of UE attached to data only network' should be studied within the scope of the attached WID. If so, it is assumed that SA1 informs CN1, RAN2 and GERAN2 about the requirements for this feature in order for CN1, RAN2 and GERAN2 to perform the work within the Rel-6 timeframe
- b) CN1 would also like to know of possible connections to the recently agreed WID 'Emergency Telecommunication Service' in SA1.

To SA2 group.

ACTION:

- a) CN1 asks SA2 whether they agree to update the work plan and formally be in charge of the work needed in stage 1 and stage 2.
- b) CN1 would like to be informed if the stage 1 and stage 2 work for 'Emergency call enhancements' will be described by a separate WID or if this work is included in an existing WID owned by SA2.
- c) CN1 would like to be informed if the WID for 'Emergency calls without UICC/SIM in networks with IMS, (unique id ID 2527)' will be updated. If not, CN1 will create a separate WID on this topic for the stage 3 details.

To SA3 group.

ACTION:

CN1 asks SA3 whether any security issues have been identified or are foreseen that may impact the detailed procedures covered by specifications controlled by CN.

To CN3 and CN4 groups.

ACTION:

CN1 informs CN3 and CN4 of the proposed WID and seeks assistance in identifying the affected specifications in their groups.

To RAN and GERAN groups

ACTION:

Relevant RAN and GERAN WGs to inform CN1 if possible impacts on the radio layer due to prioritisation of packet based bearers in case of emergency calls (ordinary PS based emergency calls or 'emergency calls in case of UE attached to data only network) have been identified and if this may impact work in specifications controlled by CN1. CN1 has the understanding that dependant on SA1s answer to question a) above, the impact may differ dependant of whether 'emergency calls in case of UE attached to data only network' will be part of attached work item or not.

To T3 group.

ACTION:

CN1 asks T3 whether any changes to the USIM has been identified or are foreseen that may impact the detailed procedures covered by specifications controlled by CN.

3. Date of Next TSG-CN1 Meetings:

| | | |
|--------|---|--------------------------|
| CN1_29 | 31 st March – 4 th April 2003 | Sophia Antipolis, France |
| CN1_30 | 19 th – 23 rd May 2003 | San Diego, USA |
| CN1_31 | 25 th – 29 th August 2003 | Sophia Antipolis, France |

~~3GPP TSG CN Plenary Meeting #11, Palm Springs, U.S.A
14th - 16th March 2001~~ ~~Tdoc NP-010137~~

Source: Ericsson
Title: Work Item Description:
Emergency Call Enhancements for IP& PS Based Calls – stage 3
Agenda item: 8.5
Document for: APPROVAL

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

-

[\(1652\) 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.~~

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:

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~~Meeting #11, Palm Springs, U.S.A~~
~~14th - 16th March 2001~~

~~Tdoc NP-010137~~

- 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

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

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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 |
| 22.101, | | SIP Emergency Calls | | | TSG#14 | |
| 23.228 | | SIP Emergency Calls | | | TSG#14 | |
| 24.228 | | SIP Emergency Calls | | | TSG#14 | |
| 24.008 | | SIP PS based Emergency Calls | | | TSG#2144 Sept. 2003 | CN1 resp. Generic changes to RIL-3 due to emergency calls for the PS domain |
| 24.228 | | SIP Emergency Calls for IMS | | | TSG#2144 Sept. 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#2144 Sept. 2003 | CN1 resp. Changes to IMS due to the availability of a PS bearer for emergency calls |
| 29.061 | | PS based emergency calls | | | TSG#21 Sept. 2003 | CN3 resp. Generic changes to RIL-3 due to emergency calls for the PS domain |
| 29.163 | | PS based emergency calls | | | TSG#21 Sept. 2003 | CN3 resp. Additions to the IW due to emergency calls. |
| 29.060 | | PS based emergency calls | | | TSG#21 Sept. 2003 | CN4 resp. Is this spec affected? Generic changes to 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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~~**14th - 16th March 2001**~~

~~**Tdoc NP-010137**~~

| | |
|---|----------------------------|
| 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

Emergency call enhancements ([unique id 1652](#))

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

N/A