
Source: SA1
Title: CRs to 22.101 on Correction of emergency call set-up MMI requirements (R99, Rel-4, Rel-5)
Document for: Approval
Agenda Item: 7.1.3

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers. Current	Vers New	SA1 Doc
SP-23	SP-040083	22.101	147	-	R99	F	Correction of emergency call set-up MMI requirements	3.16.0	3.17.0	S1-040230
SP-23	SP-040083	22.101	148	-	Rel-4	A	Correction of emergency call set-up MMI requirements	4.9.0	4.10.0	S1-040231
SP-23	SP-040083	22.101	149	-	Rel-5	A	Correction of emergency call set-up MMI requirements	5.12.0	5.13.0	S1-040232

TSG-SA WG1 #23

S1-040230

Innsbruck, Austria, 12 – 16 January 2004

Agenda Item: 10.1

CR-Form-v7	<h2 style="margin: 0;">CHANGE REQUEST</h2> <p style="margin: 10px 0;">⌘ 22.101 CR 147 ⌘ rev - ⌘ Current version: 3.16.0 ⌘</p>
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For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Correction of emergency call set-up MMI requirements		
Source:	⌘ SA1 (NTT DoCoMo Inc.)		
Work item code:	⌘ EMC1	Date:	⌘ 14/1/2004
Category:	⌘ F	Release:	⌘ Rel-99
	<i>Use <u>one</u> of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use <u>one</u> of the following releases:</i> 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:	⌘ Specification of the emergency call set-up MMI within the USIM/SIM is described as mandatory from R99 onwards. Therefore, it can be interpreted that it is only pre-R99 SIMs that may have no stored emergency numbers. The current text for the case when no emergency numbers are present however mentions both SIM and USIM. This text would appear to be contradictory to the apparently 'mandatory' requirement for storage of the emergency call MMI, and as such it is necessary that it is clarified that even though it is expected that USIM will contain emergency numbers, the case of no emergency numbers stored within the USIM still needs to be handled as specified within TS 22.101. This text needs to be clarified to ensure that the requirements for the emergency call set-up MMI are implemented consistently.
Summary of change:	⌘ The requirement for the case when no emergency numbers are stored within the SIM/USIM is split into two specific requirements to specify the functionality to be provided.
Consequences if not approved:	⌘ Confusion due to apparent inconsistency of requirements for the emergency call set-up MMI resulting in inconsistent implementations and subsequently the possible failure of emergency call functionality to operate as specified.

Clauses affected:	⌘ 8								
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table>	Y	N					Other core specifications	⌘
Y	N								
		Test specifications	⌘						

<input type="checkbox"/>	<input type="checkbox"/>	O&M Specifications	
Other comments: ☞			

How to create CRs using this form:

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 <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.

First Modified section

8 Emergency Calls

PLMNs shall support an emergency call teleservice as defined in TS 22.003 [14] (TS12), which fulfils 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. This may be based upon one or more default numbers stored in the ME. 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 a car air bag control. Emergency Calls shall be available without a SIM/USIM being present. No other type of calls shall be accepted without a SIM/USIM.

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

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

When a SIM/USIM is present, subscriber specific emergency call set-up MMI shall be provided. The operator shall specify preferred emergency call MMI(s) (e.g. 911 for US citizens or 110, 118 and 119 for Japanese citizens) for use in any (i.e. home or visited) PLMN. 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.

Note: The ME contains the following emergency numbers: 000, 08, 112, 110, 118, 119, 911 and 999. The availability of these numbers varies depending on the presence of the SIM/USIM and operator provisioned emergency numbers on the SIM/USIM.

When a SIM/USIM containing stored emergency numbers is present, those numbers are identified as emergency numbers. As an optional requirement, the ME shall also identify 112 and 911 as emergency numbers irrespective of whether these are stored in the SIM/USIM. Any other emergency numbers stored in the ME shall be ignored.

~~The following emergency numbers shall be stored in the ME for use when no emergency numbers are stored in the SIM/USIM: 112, and 911.~~

When no emergency numbers are stored within the SIM the following numbers shall be stored in the ME for use as emergency numbers: 112, and 911.

When no emergency numbers are stored within the USIM the following numbers shall be stored in the ME for use as emergency numbers: 112, and 911.

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

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

End of changes

TSG-SA WG1 #23

S1-040231

Innsbruck, Austria, 12 – 16 January 2004

Agenda Item: 10.1

CR-Form-v7	CHANGE REQUEST
⌘ 22.101 CR 148 ⌘ rev - ⌘ Current version: 4.9.0 ⌘	

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Correction of emergency call set-up MMI requirements		
Source:	⌘ SA1 (NTT DoCoMo Inc.)		
Work item code:	⌘ EMC1	Date:	⌘ 14/1/2004
Category:	⌘ A	Release:	⌘ Rel-4
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> 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:	⌘ Specification of the emergency call set-up MMI within the USIM/SIM is described as mandatory from R99 onwards. Therefore, it can be interpreted that it is only pre-R99 SIMs that may have no stored emergency numbers. The current text for the case when no emergency numbers are present however mentions both SIM and USIM. This text would appear to be contradictory to the apparently 'mandatory' requirement for storage of the emergency call MMI, and as such it is necessary that it is clarified that even though it is expected that USIM will contain emergency numbers, the case of no emergency numbers stored within the USIM still needs to be handled as specified within TS 22.101. This text needs to be clarified to ensure that the requirements for the emergency call set-up MMI are implemented consistently.
Summary of change:	⌘ The requirement for the case when no emergency numbers are stored within the SIM/USIM is split into two specific requirements to specify the functionality to be provided.
Consequences if not approved:	⌘ Confusion due to apparent inconsistency of requirements for the emergency call set-up MMI resulting in inconsistent implementations and subsequently the possible failure of emergency call functionality to operate as specified.

Clauses affected:	⌘ 9.1								
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> Other core specifications ⌘	Y	N						⌘
Y	N								
	Test specifications		⌘						

	<input type="checkbox"/> <input type="checkbox"/> O&M Specifications	
Other comments: ⌘		

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- 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.

First Modified section

9 Emergency Calls

9.1 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 call teleservice is required only if the UE supports telephony.

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:

Police (Albania)

Police and Fire Brigade (Greek cities)

Ambulance and Fire Brigade (Belgium)

Police and Ambulance (Italy)

General emergency call, all categories (Sweden)

Fire Brigade (Italy)

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.

Note: The ME contains the following emergency numbers: 000, 08, 112, 110, 118, 119, 911 and 999. The availability of these numbers varies depending on the presence of the SIM/USIM and operator provisioned emergency numbers on the SIM/USIM.

When a SIM/USIM containing stored emergency numbers is present, those numbers are identified as emergency numbers. As an optional requirement, the ME shall also identify 112 and 911 as emergency numbers irrespective of whether these are stored in the SIM/USIM. Any other emergency numbers stored in the ME shall be ignored.

~~The following emergency numbers shall be stored in the ME for use when no emergency numbers are stored in the SIM/USIM: 112, and 911.~~

When no emergency numbers are stored within the SIM the following numbers shall be stored in the ME for use as emergency numbers: 112, and 911.

When no emergency numbers are stored within the USIM the following numbers shall be stored in the ME for use as emergency numbers: 112, and 911.

Note: Emergency numbers stored in the ME, for use when no emergency numbers are stored in the SIM/USIM, 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.

End of changes

TSG-SA WG1 #23

S1-040232

Innsbruck, Austria, 12 – 16 January 2004

Agenda Item: 10.1

CR-Form-v7
CHANGE REQUEST
⌘ 22.101 CR 149 ⌘ rev - ⌘ Current version: 5.12.0 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Correction of emergency call set-up MMI requirements		
Source:	⌘ SA1 (NTT DoCoMo Inc.)		
Work item code:	⌘ EMC1 Date: ⌘ 14/1/2004		
Category:	⌘ A Release: ⌘ Rel-5 Use <u>one</u> of the following categories: <table style="width: 100%; margin-top: 5px;"> <tr> <td style="width: 50%; vertical-align: top;"> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) </td> <td style="width: 50%; vertical-align: top;"> Use <u>one</u> 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) </td> </tr> </table> Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification)	Use <u>one</u> 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)
F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification)	Use <u>one</u> 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:	⌘ Specification of the emergency call set-up MMI within the USIM/SIM is described as mandatory from R99 onwards. Therefore, it can be interpreted that it is only pre-R99 SIMs that may have no stored emergency numbers. The current text for the case when no emergency numbers are present however mentions both SIM and USIM. This text would appear to be contradictory to the apparently 'mandatory' requirement for storage of the emergency call MMI, and as such it is necessary that it is clarified that even though it is expected that USIM will contain emergency numbers, the case of no emergency numbers stored within the USIM still needs to be handled as specified within TS 22.101. This text needs to be clarified to ensure that the requirements for the emergency call set-up MMI are implemented consistently.
Summary of change:	⌘ The requirement for the case when no emergency numbers are stored within the SIM/USIM is split into two specific requirements to specify the functionality to be provided.
Consequences if not approved:	⌘ Confusion due to apparent inconsistency of requirements for the emergency call set-up MMI resulting in inconsistent implementations and subsequently the possible failure of emergency call functionality to operate as specified.

Clauses affected:	⌘ 10.1												
Other specs affected:	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> </table> </td> <td style="width: 70%;">Other core specifications</td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td></td> <td>Test specifications</td> <td></td> </tr> </table>		<table border="1" style="border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> </table>	Y	N			Other core specifications				Test specifications	
	<table border="1" style="border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> </table>	Y	N			Other core specifications							
Y	N												
		Test specifications											

	<input type="checkbox"/> <input type="checkbox"/> O&M Specifications	
Other comments:	⌘	

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First Modified section

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 1: 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.

Note 2: The ME contains the following emergency numbers: 000, 08, 112, 110, 118, 119, 911 and 999. The availability of these numbers varies depending on the presence of the SIM/USIM and operator provisioned emergency numbers on the SIM/USIM.

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 only (as identified by the MCC) and shall discard them when a new country is entered.

When a SIM/USIM containing stored emergency numbers is present, only 112, 911, the SIM/USIM numbers and emergency numbers downloaded from the serving network (if any) are identified as emergency numbers.

~~When no numbers are stored in the SIM/USIM, only 112, 911 and emergency numbers downloaded from the serving network (if any) are identified as emergency numbers.~~

When no emergency numbers are stored within the SIM, only 112, 911 and emergency numbers downloaded from the serving network (if any) shall be treated as emergency numbers.

When no emergency numbers are stored within the USIM, only 112, 911 and emergency numbers downloaded from the serving network (if any) shall be treated as emergency numbers.

Note: Emergency numbers stored in the ME, for use when no emergency numbers are stored in the SIM/USIM, 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.

When there is no SIM/USIM present only 000, 08, 112, 110, 118, 119, 911 and 999 are identified as emergency numbers.

End of changes