**3GPP TSG- Meeting #**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network |  |

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| ***Title:*** |  | | | | | | | | | |
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| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** | R5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | | 2023-02-20 |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change 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](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | According to the WP in R5-225103 test case 11.4.1a “5GMM-REGISTERED.NORMAL-SERVICE / 5GMM-IDLE / Emergency call / Utilising emergency number stored on the USIM / New emergency PDU session / PEIPS assistance information”. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adding test case 11.4.1a “5GMM-REGISTERED.NORMAL-SERVICE / 5GMM-IDLE / Emergency call / Utilising emergency number stored on the USIM / New emergency PDU session / PEIPS assistance information”. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The test coverage will be incomplete. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 11.4.1a [New] | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **x** | Other core specifications | | | |  | | |
| ***affected:*** | | **x** |  | Test specifications | | | | TS 38.523-2 CR 0332 | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | |  | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | This CR is an update to R5-231351 and the outcome of 2 revisions of this. | | | | | | | | |

### 11.4.1a 5GMM-REGISTERED.NORMAL-SERVICE / 5GMM-IDLE / Emergency call / Utilising emergency number stored on the USIM / New emergency PDU session / PEIPS assistance information

11.4.1a.1 Test Purpose (TP)

(1)

**with** { UE with PEIPS assistance information provided with the Paging subgroup ID in 5GMM-IDLE state with an emergency PDU Session established on a cell that support PEIPS and subgroupsNumForUEID is absent in subgroupConfig }

**ensure that** {

**when** { UE receives a Paging message with matching identity and a PEI with the bit corresponding for the subgroup the UE belongs to indicated as 0 }

**then** { UE responds to paging }

}

11.4.1a.2 Conformance requirements

References: The conformance requirements covered in the present TC are specified in: TS 24.501 [22], subclauses 5.3.25.

[TS 24.501, subclause 5.6.1.2]

When an emergency PDU session is successfully established over 3GPP access after the UE received the Negotiated PEIPS assistance information IE during the last registration procedure, the UE and the AMF shall not use PEIPS assistance information until:

- the successful completion of the PDU session release procedure of the emergency PDU;

- the UE receives PEIPS assistance information during a registration procedure with PDU session status IE or upon successful completion of a service request procedure, if the UE or the network locally releases the emergency PDU session;

- the successful completion of handover of emergency PDU session to non-3GPP access; or

- the successful transfer of the emergency PDU session in 5GS to the EPS or ePDG connected to EPC.

11.4.1a.3 Test description

11.4.1a.3.1 Pre-test conditions

System Simulator:

- 1 NR Cell

- NR Cell 1 as defined in TS 38.508-1 [4] Table 4.4.2-3. System information combination NR-1 as defined in TS 38.508-1 [4], subclause 4.4.3.1.2. SIB1 indicates *ims-EmergencySupport*..

UE:

- The UE is equipped with a test USIM with USIM Configuration 20 as defined in TS 38.508-1 [4] Table 6.4.1-20 (USIM contains two Emergency Numbers: 144, 117).

Preamble:

- Cells power level configuration in accordance with TS 38.508-1 [4], Table 6.2.2.1-3:

- NR Cell 1 "Serving cell"

- The UE is in 5GS state 0-A according to TS 38.508-1 [4], clause 4.4A.2 Table 4.4A.2-1.

11.4.1a.3.2 Test procedure sequence

Table 11.4.1a.3.2-1: Main behaviour

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| St | Procedure | Message Sequence | | TP | Verdict |
|  |  | U - S | Message |  |  |
| 1 | The UE is switched on | - | - | - | - |
| 2-21a1 | The UE performs steps 1-20a1 of the RRC\_IDLE procedure specified in TS 38.508-1 [4], table 4.5.2.2-2. | - | - | - | - |
| 22 | Make the UE attempt an IMS emergency call dialling the number 144 which is stored on the USIM. (NOTE 1) | - | - | - | - |
| 23 | The UE performs Generic Test Procedure for IMS Emergency call establishment with IMS emergency registration as specified in TS 38.508-1 [4], subclause 4.9.11. | - | - | - | - |
| 24 | The Test procedure for IMS MT Emergency call release as specified in TS 34.508-1 [4], subclause 4.9.12B takes place with “keep emergency PDU session”. | - | - | - | - |
| 25 | The SS releases the RRC connection. | - | - | - | - |
| 26 | The SS transmits a PEI with the bit corresponding for the subgroup the UE belongs to indicated as 0 and the Paging message including a matched identity. | <-- | NR RRC: *Paging* | - | - |
| 27 | Check: Does the UE transmit an *RRCSetupRequest* message? | --> | NR RRC: *RRCSetupRequest* | 1 | P |
| 28 | The SS transmits an *RRCSetup* message. | <-- | NR RRC: *RRCSetup* | - | - |
| 29 | The UE transmit an *RRCSetupComplete* message including SERVICE REQUEST to confirm the successful completion of the connection establishment. | --> | NR RRC: *RRCSetupComplete*  5GMM: SERVICE REQUEST | - | - |
| 30 | Steps 5 to 8 of the NR RRC\_CONNECTED procedure in TS 38.508-1 Table 4.5.4.2-3 are executed to successfully complete the service request procedure. | - | - | - | - |
| 31 | The SS transmits an RRCRelease message | <-- | NR RRC: RRCRelease | - | - |
| NOTE 1: This could be done by e.g. MMI or AT command. | | | | | |

11.4.1a.3.3 Specific message contents

Table 11.4.1a.3.3-1: SIB1 for NR Cell 1(preamble and all steps, Table 11.4.1a.3.2-1)

|  |  |  |  |
| --- | --- | --- | --- |
| Derivation Path: TS 38.508-1 [4], table 4.6.1-28 with condition PEI | | | |
| Information Element | Value/remark | Comment | Condition |
| SIB1 ::= SEQUENCE { |  |  |  |
| servingCellConfigCommon | ServingCellConfigCommonSIB in Table 9.1.14.1.1.3.3-2 |  |  |
| } |  |  |  |

Table 11.4.1a.3.3-2: ServingCellConfigCommonSIB(preamble and all steps, Table 11.4.1a.3.2-1)

|  |  |  |  |
| --- | --- | --- | --- |
| Derivation Path: TS 38.508-1 [4], table 4.6.1-169 with condition PEI | | | |
| Information Element | Value/remark | Comment | Condition |
| ServingCellConfigCommonSIB ::= SEQUENCE { |  |  |  |
| downlinkConfigCommon | DownlinkConfigCommonSIB in Table 9.1.14.1.1.3.3-3 |  |  |
| } |  |  |  |

Table 11.4.1a.3.3-3: DownlinkConfigCommonSIB(preamble and all steps, Table 11.4.1a.3.2-1)

|  |  |  |  |
| --- | --- | --- | --- |
| Derivation Path: TS 38.508-1 [4], table 4.6.3-53 with condition PEI | | | |
| Information Element | Value/remark | Comment | Condition |
| DownlinkConfigCommonSIB ::= SEQUENCE { |  |  |  |
| pei-Config-r17 ::= SEQUENCE { |  |  |  |
| subgroupConfig-r17 ::= SEQUENCE { |  |  |  |
| subgroupsNumForUEID-r17 | Not Present |  | NR Cell 1 |
| } |  |  |  |
| } |  |  |  |
| } |  |  |  |

Table 11.4.1a.3.3-4: REGISTRATION ACCEPT (step 15, Table 11.4.1a.3.2-1)

|  |  |  |  |
| --- | --- | --- | --- |
| Derivation path: TS 38.508-1 [4], Table 4.7.1-7 | | | |
| Information Element | | Value/remark | Comment | Condition |
| Negotiated PEIPS assistance information | |  |  |  |
| PEIPS assistance information IEI | | ‘33’H |  |  |
| Length of PEIPS assistance information contents | | ‘01’H |  |  |
| PEIPS assistance information type 1 | |  |  |  |
| Type of information | | ‘000’B | Paging subgroup ID value |  |
| Paging subgroup ID value | | ‘00001’B |  |  |

Table 11.4.1a.3.3-5: *RRCSetupRequest* (step 25, Table 8.1.1.1.1.3.2-1)

|  |  |  |  |
| --- | --- | --- | --- |
| Derivation Path: TS 38.508-1 [4], Table 4.6.1-23 | | | |
| Information Element | Value/remark | Comment | Condition |
| RRCSetupRequest ::= SEQUENCE { |  |  |  |
| rrcSetupRequest SEQUENCE { |  |  |  |
| establishmentCause | mt-Access |  |  |
| } |  |  |  |
| } |  |  |  |