**3GPP TSG-RAN5 Meeting #92e *R5-NNNNN***

**Electronic Meeting, August 16th – August 27th, 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **51.010-2** | **CR** | ***xxxx*** | **rev** | **-** | **Current version:** | **13.11.0** |  |
|  | | | | | | | | |
| *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 | **X** | Radio Access Network |  | Core Network |  |

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| ***Title:*** | Update to TS 51.010-2 to mandate non support of GEA1 for Release 11 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | NTT DOCOMO, Vodafone | | | | | | | | | |
| ***Source to TSG:*** | R5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI11\_Test | | | | |  | ***Date:*** | | | 2021-08-16 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-13 |
|  | *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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | To align with updates to 3GPP specifications to change: not allowed to implement GEA1 from a 3GPP specified Release 12 to not allowed to implement GEA Release 11 onwards. See approved SP-210448. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Update applicability table related to GEA1 feature not to support changed from Rel-12 onwards to Rel-11 onwards. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | There will be a risk that a practical key recovery attack aganst GEA1 could be made if devices continue to support GEA1. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | A.4.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  |  | Other core specifications | | | |  | | |
| ***affected:*** | |  |  | Test specifications | | | |  | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | |  | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**<Start of first modified section>**

## A.4.3 Mobile Station Features

The supplier of the implementation shall state the support of the implementation for each of the questions concerning the mobile station features given in the table below.

Table A.2: Mobile Station Features

| Item | Mobile Station Feature | | Ref. | Release | Status | Support | Mnemonic |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Display of Called Number. | | 3GPP TS 02.07 B.1.1 | Phase 2 | C.202 |  | TSPC\_Feat\_DCN |
| 2 | Indication of Call Progress Signals. | | 3GPP TS 02.07 B.1.2 | Phase 2 | C.204 |  | TSPC\_Feat\_CPSind |
| 3 | Country/PLMN Indication. | | 3GPP TS 02.07 B.1.3 | Phase 2 | C.202 |  | TSPC\_Feat\_PLMNind |
| 4 | Country/PLMN Selection. | | 3GPP TS 02.07 B.1.4 | Phase 2 | M |  | TSPC\_Feat\_PLMNsel |
| 5 | Keypad. | | 3GPP TS 02.07 B.1.5 | Phase 2 | O |  | TSPC\_Feat\_Keypad |
| 6 | IMEI. | | 3GPP TS 02.07 B.1.6 | Phase 2 | M |  | TSPC\_Feat\_IMEI |
| 7 | Short Message Overflow Indication. | | 3GPP TS 02.07 B.1.8 | Phase 2 | M |  | TSPC\_Feat\_SMoverflow |
| 8 | DTE /DCE Interface. | | 3GPP TS 02.07 B.1.9 | Phase 2 | O |  | TSPC\_Feat\_DTE\_DCE |
| 9 | ISDN "S" Interface. | | 3GPP TS 02.07 B.1.10 | Phase 2 | O |  | TSPC\_Feat\_Sinterface |
| 10 | International Access Function. | | 3GPP TS 02.07 B.1.11 | Phase 2 | O |  | TSPC\_Feat\_IntAccess |
| 11 | Service Indicator. | | 3GPP TS 02.07 B.1.12 | Phase 2 | C.203 |  | TSPC\_Feat\_ServInd |
| 12 | Auto calling restriction capabilities. | | 3GPP TS 02.07 annex A | Phase 2 | C.205 |  | TSPC\_Feat\_AutocallRestric |
| 13 | Dual Tone Multi Frequency function. | | 3GPP TS 02.07 B.1.15 | Phase 2 | C.201 |  | TSPC\_Feat\_DTMF |
| 14 | Subscription Identity Management. | | 3GPP TS 02.07 B.1.16 | Phase 2 | M |  | TSPC\_Feat\_SIM |
| 15 | On/Off switch. | | 3GPP TS 02.07 B.1.17 | Phase 2 | O |  | TSPC\_Feat\_OnOff |
| 16 | Subaddress. | | 3GPP TS 02.07 B.1.18 | Phase 2 | O |  | TSPC\_Feat\_Subaddress |
| 17 | Support of Encryption A5/1. | | 3GPP TS 02.07 B.1.19 | Phase 2 | M |  | TSPC\_Feat\_A51 |
| 18 | Void | |  |  |  |  |  |
| 19 | Short Message Service Cell Broadcast DRX. | | 3GPP TS 02.07 B.1.20 | Phase 2 | O |  | TSPC\_Feat\_SMS\_CB\_DRX |
| 20 | Abbreviated Dialling. | | 3GPP TS 02.07 B.3.1 | Phase 2 | O |  | TSPC\_Feat\_AD |
| 21 | Fixed Dialling Number | | 3GPP TS 02.07 B.3.2 | Phase 2 | O |  | TSPC\_Feat\_FDN |
| 22 | Barring of Outgoing Calls. | | 3GPP TS 02.07 B.3.3 | Phase 2 | O |  | TSPC\_Feat\_BO |
| 23 | DTMF Control Digits Separator. | | 3GPP TS 02.07 B.3.4 | Phase 2 | O |  | TSPC\_Feat\_DTMF\_CDS |
| 24 | Selection of Directory No in Short Messages. | | 3GPP TS 02.07 B.3.5 | Phase 2 | O |  | TSPC\_Feat\_SM\_Dir |
| 25 | Last Numbers Dialled. | | 3GPP TS 02.07 B.3.6 | Phase 2 | O |  | TSPC\_Feat\_LND |
| 26 | At least one autocalling feature. | | 3GPP TS 02.07 annex A | Phase 2 | O |  | TSPC\_Feat\_Autocall |
| 27 | Alphanumeric display. | | 3GPP TS 02.07 2 | Phase 2 | O |  | TSPC\_Feat\_Alphanum\_Display |
| 28 | Other means of display. | | 3GPP TS 02.07 2 | Phase 2 | O |  | TSPC\_Feat\_Other\_Means\_of\_Display |
| 29 | Speech indicator. | | 3GPP TS 02.07 2 | Phase 2 | O |  | TSPC\_Feat\_Speech\_Indicator |
| 30 | Support of the extended Short message cell broadcast channel | | 3GPP TS 02.07 B.1.23 | R96 | O |  | TSPC\_Ext\_SMcell\_BC |
| 31 | Support of Additional Call Set-up MMI Procedures | | 3GPP TS 02.07 B.1.24 | R96 | O |  | TSPC\_AddCall\_Su\_MMi\_Proc |
| 32 | Void | |  |  |  |  |  |
| 33 | Ciphering Indicator | | 3GPP TS 02.07 B.1.22(B.1.2.26) | Phase 2 (R96) | C.202 |  | TSPC\_Feat\_Ciphering |
| 34 | Network’s indication of alerting in the MS $(NI Alert in MS)$ | | 3GPP TS 02.07 B.1.27 | R96 | O |  | TSPC\_Feat\_NI\_AlertinMS |
| 35 | ME-SIM lock | | 3GPP TS 02.07 B.3.7 | R96 | O |  | TSPC\_SIM\_Lock |
| 36 | Service Dialling Numbers | | 3GPP TS 02.07 B.3.8 | R96 | O |  | TSPC\_Service\_No |
| 37 | Extended timing advance | | 3GPP TS 05.10, 5.5 | R99 | C.206 |  | TSPC\_Feat\_Ext\_TA |
| 38 | Support of SoLSA | | 3GPP TS 02.43,  3GPP TS 22.043 B.1.27  3GPP TS 03.73 3GPP TS 23.073 | R98 | O |  | TSPC\_SoLSA |
| 39 | Audible Indication of Service Tones | | 3GPP TS 02.07, B.1.27 | R96 | O |  | TSPC\_Feat\_audible\_tone |
| 40 | Autocalling\_Cause 27 Implemented in Cat 3 | | 3GPP TS 02.07 annex A | Phase 2 | O |  | TSPC\_Feat\_Cause27Cat3 |
| 41 | Support of GPRS | | 3GPP TS 02.60  3GPP TS 22.060 | R97 | O |  | TSPC\_GPRS |
| 42 | Support of EGPRS | | 3GPP TS 02.60  3GPP TS 22.060 | R99 | O |  | TSPC\_EGPRS |
| 43 | Support of GPRS Encryption | | 3GPP TS 02.60  3GPP TS 22.060 | R98 | C.207 |  | TSPC\_GPRS\_Encryp |
| 44 | Control of Supplementary Services | | 3GPP TS 02.07, 2 | Phase 2 | O |  | TSPC\_Control\_SS |
| 45 | Short message | | 3GPP TS 02.07, 2 | Phase 2 | O |  | TSPC\_Supp\_SM |
| 46 | Emergency calls capabilities | | 3GPP TS 02.07, B.1.14 | Phase 2 | C.211 |  | TSPC\_Emergency\_call\_cap |
| 47 | GPRS operation mode class A | | 3GPP TS 02.60, 5.4.5  3GPP TS 22.060, 5.4.5 | R97 | C.209 |  | TSPC\_operation\_mode\_A |
| 48 | GPRS operation mode class B | | 3GPP TS 02.60, 5.4.5  3GPP TS 22.060, 5.4.5 | R97 | C.209 |  | TSPC\_operation\_mode\_B |
| 49 | GPRS operation mode class C | | 3GPP TS 02.60, 5.4.5  3GPP TS 22.060, 5.4.5 | R97 | C.209 |  | TSPC\_operation\_mode\_C |
| 50 | MS supporting SMS over GPRS | | 3GPP TS 22.060, 5.4 | R99 | O |  | TSPC\_SMS\_over\_GPRS |
| 51 | void | |  |  |  |  |  |
| 52 | Void | |  |  |  |  |  |
| 53 | Support of ECSD | | 3GPP TS 05.08, B.6  3GPP TS 45.008, B.6 | R99 | O |  | TSPC\_ECSD |
| 54 | GPRS test mode A | | 3GPP TS 04.14 5.4 | R97 | C.208 |  | TSPC\_GPRS\_Testmode\_A |
| 55 | GPRS test mode B | | 3GPP TS 04.14 5.4 | R97 | C.208 |  | TSPC\_GPRS\_Testmode\_B |
| 56 | EGPRS test mode | | 3GPP TS 04.14 |  | C.210 |  | TSPC\_EGPRS\_Testmode |
| 57 | Support of MS-Assisted E-OTD | | 3GPP TS 03.71  7.6.1 | R98 | O |  | TSPC\_EOTD\_ASSIST |
| 58 | Non-zero value of Non\_DRX\_Timer | | 3GPP TS 04.60 | R97 | C.208 |  | TSPC\_non\_zero\_Non\_DRX\_Timer |
| 59 | Support of MS-Based A-GPS L1 C/A | | 3GPP TS 03.71  7.6.1 | R98 | O |  | TSPC\_A-GPS\_Based |
| 60 | Support of MS-Assisted A-GPS L1 C/A | | 3GPP TS 03.71  7.6.1 | R98 | O |  | TSPC\_A-GPS\_Assist |
| 61 | Void | |  |  |  |  |  |
| 62 | Support of DTM/GPRS | | 3GPP TS 24.008 10.5.1.7, 3GPP TS 24.008 10.5.5.12a | R99 | C.208 |  | TSPC\_DTM\_GPRS |
| 63 | Support MS Assisted EOTD Performance for GMSK | | 3GPP TS 05.05 Annex I | R98 | O |  | TSPC\_EOTD\_ASSIST\_AND\_TSPC\_PERF\_GMSK |
| 64 | Support MS Assisted EOTD Performance for 8PSK | | 3GPP TS 05.05 Annex I | R99 | O |  | TSPC\_EOTD\_ASSIST\_AND\_TSPC\_PERF\_8PSK |
| 65 | Support of EGPRS Packet Access enhancement | | 3GPP TS 04.18 3.5.2.1.2  3GPP TS 04.60 7.1.2.1 | R99 only | O |  | TSPC\_EGPRS\_ENHANC |
| 66 | void | |  |  |  |  |  |
| 67 | Support of MT SMS over GPRS | | 3GPP TS 22.060, 5.4 | R99 | O |  | TSPC\_MT\_SMS\_over\_GPRS |
| 68 | void | |  |  |  |  |  |
| 69 | Support of DTM/EGPRS | | 3GPP TS 24.008 10.5.1.7, 3GPP TS 24.008 10.5.5.12a | R99 | C.210 |  | TSPC\_DTM\_EGPRS |
| 70 | Support of Extended dynamic allocation | | 3GPP TS 45.002, B.1 | R99 | C.214 |  | TSPC\_Extended\_Dynamic\_Allocation |
| 71 | Support of GAN | | 3GPP TS 44.318 | Rel-6 | O |  | TSPC\_GAN |
| 72 | Support of GERAN FEATURE PACKAGE 1 | | 3GPP TS 44.060 5.5.1.1a, 9.3.1b.1 | Rel-4 | M |  | TSPC\_GERAN\_FEATURE\_PACKAGE\_1 |
| 73 | Support of Encryption A5/3 | | 3GPP TS 43.020 | Rel-6 | M |  | TSPC\_Feat\_A53 |
|  |  | |  | R99 | O |  |  |
| 74 | Support of Fine Time Assistance | | 3GPP TS 44.031 A.4.2.4 | Rel-4 | C.215 |  | TSPC\_Fine\_Time\_Assist |
| 75 | Support of Encryption GEA2 | | 3GPP TS 43.020 | Rel-6 | M |  | TSPC\_Feat\_GEA2 |
| 76 | Support of Encryption GEA3 | | 3GPP TS 43.020 | Rel-6 | M |  | TSPC\_Feat\_GEA3 |
| 77 | Use of R99 Emergency numbers | | 3GPP TS 22.101 8 | Phase2  up to R98 | O |  | TSPC\_R99\_Emerg |
| 78 | Support of GERAN FEATURE PACKAGE 2 | | 3GPP TS 45.008 | Rel-5 | O |  | TSPC\_GERAN\_FEATURE\_PACKAGE\_2 |
| 79 | Support of GAN to UTRAN CS Handover | | 3GPP TS 44.318 | Rel-6 | O |  | TSPC\_GAN\_TO\_UTRAN\_CS\_Handover |
| 80 | Support of UTRAN to GAN CS Handover | | 3GPP TS 44.318 | Rel-6 | O |  | TSPC\_UTRAN\_TO\_GAN\_CS\_Handover |
| 81 | Support of Enhanced DTM CS | | 3GPP TS 43.055 | Rel-6 | O |  | TSPC\_Enhanced\_DTM\_CS |
| 82 | Support of PS Handover | | 3GPP TS 43.129 | Rel-6 | O |  | TSPC\_PS\_Handover |
| 83 | Support of simultaneous CS and PS services in GAN | | 3GPP TS 44.318 | Rel-6 | C.216 |  | TSPC\_Simult\_CS\_PS\_GAN |
| 84 | Support of Latency reductions | | 3GPP TS 43.064 3.3.5 | Rel-7 | O |  | TSPC\_Latency\_Reductions |
| 85 | Support of Downlink Dual Carrier | | 3GPP TS 44.060 | Rel-7 | O |  | TSPC\_Downlink\_DualCarrier |
| 86 | Support of UEA2 and UIA2 | | 3GPP TS 25.331 | Rel-7 | O |  | TSPC\_UEA2\_UIA2 |
| 87 | Support of Encryption A5/4 | | 3GPP TS 43.020 | Rel-9 | O |  | TSPC\_Feat\_A54 |
| Rel11 | M |
| 88 | Support of Encryption GEA4 | | 3GPP TS 43.020 | Rel-9 | O |  | TSPC\_Feat\_GEA4 |
| 89 | Support of EGPRS2A | | 3GPP TS 44.060 | Rel-7 | O |  | TSPC\_EGPRS2A |
| 90 | Support of EGPRS2B | | 3GPP TS 44.060 | Rel-7 | O |  | TSPC\_EGPRS2B |
| 91 | eCall only equipment | | 3GPP TS 24.008 | Rel-8 | O |  | TSPC\_eCallOnly\_Equipment |
| 92 | eCall Support on MS | | 3GPP TS 24.008 | Rel-8 | O |  | TSPC\_eCallCapableMS |
| 93 | Support of DTM during Downlink Dual Carrier | | 3GPP TS 24.008 | Rel-7 | O |  | TSPC\_DTM\_During\_DLDC |
| 94 | Support of MS-Based A-GANSS | | 3GPP TS 44.031 | Rel-7 | C.217 |  | TSPC\_MSB\_A-GANSS |
| 95 | Support of MS-Assisted A-GANSS | | 3GPP TS 44.031 | Rel-7 | C.217 |  | TSPC\_MSA\_A-GANSS |
| 96 | Support for GLONASS | | 3GPP TS 44.031 | Rel-8 | O |  | TSPC\_GLONASS |
| 97 | Support for Modernized GPS | | 3GPP TS 44.031 | Rel-8 | O |  | TSPC\_MGPS |
| 98 | Support for Galileo | | 3GPP TS 44.031 | Rel-12 | O |  | TSPC\_GALILEO |
| 99 | Support of CS domain in GAN Iu mode | | 3GPP TS 44.318 | Rel-8 | O |  | TSPC\_CS\_EGAN |
| 100 | Support of PS domain in GAN Iu mode | | 3GPP TS 44.318 | Rel-8 | O |  | TSPC\_PS\_EGAN |
| 101 | Support of GAN Iu mode | | 3GPP TS 44.318 | Rel-8 | C.218 |  | TSPC\_EGAN |
| 102 | Support of MS-Based E-OTD | | 3GPP TS 03.71  7.6.1 | R98 | O |  | TSPC\_EOTD\_MS\_BASED |
| 103 | Additional Positioning Capabilities | | 3GPP TS 24.008, section10.5.1.7 | Rel-7 | O |  | TSPC\_Additional\_Positioning\_Cap |
| 104 | Ciphering Mode Setting Capability | | 3GPP TS 24.008, section10.5.1.7 | Rel-7 | O |  | TSPC\_Ciphering\_Mode\_Setting\_Cap |
| 105 | Support of PS Handover to GAN | | 3GPP 44.318 | Rel-7 | O |  | TSPC\_PS\_Handover\_To\_GAN |
| 106 | Support of Multiple TBFs | | 3GPP 44.060, 7.0 | Rel-6 | O |  | TSPC\_Multiple\_TBF |
| 107 | Void | |  |  |  |  |  |
| 108 | Support of Extended RLC/MAC control message segmentation | | 3GPP 44.060, 9.1.12a | Rel-6 | O |  | TSPC\_Xtd\_Ctrl\_Message\_Segmentation |
| 109 | Support of DTM Handover | | 3GPP 44.060, 5.8 | Rel-6 | O |  | TSPC\_DTM\_Handover |
| 110 | Support of Flexible Timeslot Assignment | | 3GPP 45.002 | Rel-7 | O |  | TSPC\_Flexible\_Timeslot |
| 111 | Support of RLC Non-persistent Mode | | 3GPP 44.060 | Rel-7 | O |  | TSPC\_RLC\_Non\_Persistent\_Mode |
| 112 | Support of E-UTRA CCN | | 3GPP 44.060 | Rel-8 | O |  | TSPC\_EUTRA\_CCN |
| 113 | Support of PS Handover to E-UTRA | | 3GPP 44.060 | Rel-8 | O |  | TSPC\_PS\_Handover\_To\_EUTRA |
| 114 | Support of EGPRS2A Uplink | | 3GPP TS 44.060 | Rel-7 | O |  | TSPC\_EGPRS2A\_UL |
| 115 | Support of EGPRS2A Downlink | | 3GPP TS 44.060 | Rel-7 | O |  | TSPC\_EGPRS2A\_DL |
| 116 | Support of EGPRS2B Uplink | | 3GPP TS 44.060 | Rel-7 | O |  | TSPC\_EGPRS2B\_UL |
| 117 | Support of EGPRS2B Downlink | | 3GPP TS 44.060 | Rel-7 | O |  | TSPC\_EGPRS2B\_DL |
| 118 | Support of Indication of Upper Layer PDU Start Capability for RLC UM | | 3GPP TS 44.060 | Rel-9 | O |  | TSPC\_UpperLayer\_PDU\_Start\_Ind |
| 119 | Support of Enhanced Multiplexing for Single TBF | | 3GPP TS 44.060 | Rel-9 | O |  | TSPC\_EMST |
| 120 | Support of Multiple TTI configurations | | 3GPP TS 44.060 | Rel-9 | O |  | TSPC\_MTTI |
| 121 | Support of VAMOS Type 1 | | 3GPP TS 45.005 | Rel-9 | O.201 |  | TSPC\_VAMOS\_Type1 |
| 122 | Support of VAMOS Type 2 | | 3GPP TS 45.005 | Rel-9 | O.201 |  | TSPC\_VAMOS\_Type2 |
| 123 | Support of EFTA | | 3GPP TS 45.002 | Rel-9 | O |  | TSPC\_EFTA |
| 124 | Support of Fast Downlink Frequency Switching Capability | | 3GPP TS 24.008 | Rel-10 | O |  | TSPC\_Fast\_Downlink\_Freq\_Switch\_Cap |
| 125 | eCall Only subscription support | | 3GPP TS 24.008 | Rel-9 | C.219 |  | TSPC\_eCall\_only\_support |
| 126 | Support of TIGHTER for speech and signalling channels | | 3GPP TS 45.005 | Rel-10 | O |  | TSPC\_TIGHTER\_SPEECH\_SIGNALLING |
| 127 | Support of TIGHTER for GPRS and EGPRS | | 3GPP TS 45.005 | Rel-10 | O |  | TSPC\_TIGHTER\_GPRS\_EGPRS |
| 128 | Support of TIGHTER for EGPRS2 | | 3GPP TS 45.005 | Rel-10 | O |  | TSPC\_TIGHTER\_EGPRS2 |
| 129 | Support of DTR | | 3GPP TS 44.060 | Rel-10 | O |  | TSPC\_DTR |
| 130 | Support of FANR capability | | 3GPP TS 44.060 9.1.14 | Rel-10 | O |  | TSPC\_FANR\_Capability |
| 131 | Support of Selective Ciphering of Downlink SACCH | | 3GPP TS 24.008 | Rel-10 | O |  | TSPC\_Selective\_Ciphering\_DL\_SACCH |
| 132 | Support of Priority based Reselection | | 3GPP TS 45.005 | Rel-8 | O |  | TSPC\_PRIORITY\_BASED\_RESELECTION |
| 133 | Support of UTRA CSG Cells Reporting | | 3GPP TS 24.008 | Rel-10 | O |  | TSPC\_UTRA\_CSG\_Cells\_Reporting |
| 134 | Support of IPA capability | | 3GPP TS 44.018 | Rel-11 | O |  | TSPC\_IMMEDIATE\_PACKET\_ASSIGNMENT |
| 135 | Support of Encryption GEA1 | | 3GPP TS 43.020 | R97 to Rel-10 | O  Note 1 |  | TSPC\_Feat\_GEA1 |
| Rel-11 | X |
| 136 | Support of Low Access Priority and Extended Access Barring | | 3GPP TS 24.008 1.8  TS 22.011 4.3.4 | Rel-10 | O |  | TSPC\_LAP\_EAB |
| 137 | Support of MinimumPeriodicSearchTimer | | 3GPP TS 23.122 4.4.3.3 | Rel-10 | O |  | TSPC\_MinimumPeriodicSearchTimer |
| 138 | Support of NMO\_I\_Behaviour | | 3GPP TS 24.008 4.1.1.4.2 | Rel-10 | O |  | TSPC\_NMO\_I\_Behaviour |
| 139 | Support of AttachWithIMSI | | 3GPP TS 24.008 4.7.3.1 and 4.4.4.1 | Rel-10 | O |  | TSPC\_AttachWithIMSI |
| 140 | Supports timer T3312 extended value | | 3GPP TS 24.008 4.7.2.2 | Rel-10 | O |  | TSPC\_T3312Extended |
| 141 | Support of RACH Power reduction | | 3GPP TS 45.008 4.2 | Rel-10 | M |  | TSPC\_RACH\_Power\_Reduction |
| 142 | Support of VAMOS Type 3 | | 3GPP TS 45.005 | Rel-12 | O.201 |  | TSPC\_VAMOS\_Type3 |
| 143 | Support of Downlink Multi Carrier (DLMC) | | 3GPP TS 44.060 | Rel-12 | O |  | TSPC\_DLMC |
| 144 | Support for BDS | | 3GPP TS 44.031 | Rel-12 | O |  | TSPC\_BDS |
| 145 | Support of eDRX | | 3GPP TS 44.018 | Rel-13 | C.220 |  | TSPC\_eDRX |
| 146 | Support of EC-GSM-IoT | | 3GPP TS 44.060 | Rel-13 | O |  | TSPC-EC\_GSM\_IOT |
| 147 | Support of PSM | | 3GPP TS 24.008 | Rel-12 | O |  | TSPC\_PSM |
| 148 | Support of manual activation/deactication of PSM | | 3GPP TS 24.008 | Rel-12 | O |  | TSPC\_PSM\_Man\_Activation |
| 149 | Support of extended value of T3312 | | 3GPP TS 24.008 | Rel-12 | O |  | TSPC\_T3312\_Extended |
| 150 | Support of user/application eDRX activation | | 3GPP TS 24.008 | Rel-13 | O |  | TSPC\_eDRX\_Activation |
| 151 | Support of Power Efficiency Operation | | 3GPP TS 44.018 | Rel-13 | O |  | TSPC\_PEO |
| 152 | Support of handling NAS reject messages without Integrity protection | | 3GPP TS 24.008 | Rel-13 | M  Note 2 |  | TSPC\_NAS\_rej\_integrity |
| O.201 | | Only one of these items can be supported | | |  | | |
| C.201 | | IF A.3/1 OR A.3/2 OR A.4/20 OR A.4/21 THEN M ELSE N/A | | | -- TSPC\_Serv\_TS11 OR TSPC\_Serv\_TS12 OR TSPC\_Serv\_BS61 OR TSPC\_Serv\_BS81 | | |
| C.202 | | IF A.2/27 THEN M ELSE N/A | | | -- TSPC\_Feat\_Alphanum\_Display | | |
| C.203 | | IF A.2/27 OR A.2/28 THEN M ELSE N/A | | | -- TSPC\_AlphaNum\_Display OR TSPC\_Other\_Means\_of\_Display | | |
| C.204 | | IF A.2/29 THEN M ELSE N/A | | | -- TSPC\_Speech\_Indicator | | |
| C.205 | | IF A.2/26 OR A.2/40 THEN M ELSE N/A | | | -- TSPC\_Feat\_Autocall | | |
| C.206 | | IF A.1/16 OR A.1/17 THEN M ELSE N/A | | | -- TSPC\_Feat\_Ext\_TA | | |
| C.207 | | IF A.2/41 OR A.2/42 THEN M ELSE N/A | | | -- TSPC\_GPRS OR TSPC\_EGPRS | | |
| C.208 | | IF A.2/41 THEN O ELSE N/A | | | -- TSPC\_GPRS | | |
| C.209 | | IF A.2/41 or A.2/42 THEN at least one of these items shall be supported ELSE N/A | | | -- TSPC\_GPRS OR TSPC\_EGPRS | | |
| C.210 | | IF A.2/42 THEN O ELSE N/A | | | -- TSPC\_EGPRS | | |
| C.211 | | IF A.3/2 THEN M ELSE N/A | | | -- TSPC\_Serv\_TS12 | | |
| C.212 | | Void | | |  | | |
| C.213 | | Void | | |  | | |
| C.214 | | IF (A.2/41 AND A.1/51) OR (A.2/42 AND A.1/66) THEN O ELSE N/A | | | -- (TSPC\_GPRS AND TSPC\_Type\_GPRS\_Multislot\_operation) OR (TSPC\_EGPRS AND TSPC\_Type\_EGPRS\_Multislot\_operation) | | |
| C.215 | | IF A.2/59 OR A.2/94 OR A.2/60 OR A.2/95 THEN O ELSE N/A | | | -- TSPC\_A-GPS\_Based OR TSPC\_MSB\_A-GANSS OR TSPC\_A-GPS\_Assist OR TSPC\_MSA\_A-GANSS) | | |
| C.216 | | IF A.2/71 THEN O ELSE N/A | | | -- TSPC\_GAN | | |
| C.217 | | IF A.2/96 or A.2/97 or A.2/98 or A.2/144 THEN at least one of these items shall be supported ELSE N/A | | | -- TSPC\_GLONASS OR TSPC\_MGPS OR TSPC\_GALILEO OR TSPC\_BDS | | |
| C.218 | | IF A.2/99 OR A.2/100 THEN M ELSE N/A | | | -- TSPC\_CS\_EGAN OR TSPC\_PS\_EGAN | | |
| C.219 | | IF A.2/91 THEN A ELSE IF A.2/125 THEN O ELSE N/A | | | -- TSPC\_eCallOnly\_Equipment OR TSPC\_eCallCapableMS | | |
| C.220 | | IF A.2/151 THEN M ELSE O | | | -- TSPC\_Feat\_Alphanum\_Display | | |
| Note 1: The removal of GEA1 in mobile stations has been agreed from Release 11 onwards.  Note 2: The support of handling NAS reject messages without Integrity protection is a mandatory feature from Rel-13 onwards and can be optionaly implemented since Rel-10. | | | | | | | |

**<End of first modified section>**