**3GPP TSG-RAN5 Meeting #108 *R5-25XXXX***

**Bengaluru, IN, Aug 25 - 29, 2025**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.523-2** | **CR** | **xxxx** | **rev** | **-** | **Current version:** | **19.1.2** |  |
|  | | | | | | | | |
| *For* ***[HE](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_blank)******[LP](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_blank)*** *on using this form: comprehensive instructions can be found at  <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:*** | Update the applicability for SONMDT TC 8.1.6.1.2.14 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | CMCC | | | | | | | | | |
| ***Source to TSG:*** | R5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI17\_Test | | | | |  | ***Date:*** | | | 2025-08-26 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19) Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The SON/MDT test case 8.1.6.1.2.14 is updated to applicable to both frequency band n40 and n41. The applicability should be updated accordingly. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Update the applicability of SON/MDT test case 8.1.6.1.2.14 to enable the TC applicable to both frequency band n40 and n41. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Test case applicability is incorrect | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.1, 4.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | | **X** |  | Test specifications | | | | TS 38.523-1 CR 5053 | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | | The hard number for “Note X” highlighted in green needs to be assigned by MCC. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

<Start of modified section>

## 4.1 Protocol conformance test cases applicability

**< Unchanged sections omitted >**

Table 4.1-3a: Applicability of Protocol conformance RRC test cases, ref. TS 38.523-1 [2]

| Clause | TC Title | Release | Applicability Condition | Applicability Comment |
| --- | --- | --- | --- | --- |
| 8 | RRC |  |  |  |
| 8.1 | NR RRC |  |  |  |
| 8.1.1 | RRC connection management procedures |  |  |  |
| 8.1.1.1 | Paging |  |  |  |
| 8.1.1.1.1 | RRC / Paging for connection / Multiple paging records | Rel-15 | C21 | UEs supporting 5G Core |
| 8.1.1.1.2 | RRC / Paging for connection / Shared network environment | Rel-15 | C21 | UEs supporting 5G Core |
| 8.1.1.1a | Paging Early Indication and Subgrouping |  |  |  |
| 8.1.1.1a.1 | Paging Early Indication with Subgrouping / RRC\_IDLE / lastUsedCellOnly not configured / Subgroup ID selection | Rel-17 | C224 | UEs supporting 5G Core and PEI |
| 8.1.1.1a.2 | Paging Early Indication with Subgrouping / RRC\_INACTIVE / lastUsedCellOnly configured | Rel-17 | C239 | UEs supporting 5G Core and RRC\_INACTIVE and PEI |
| 8.1.1.1a.3 | Paging Early Indication without Subgrouping / RRC\_IDLE | Rel-17 | C224 | UEs supporting 5G Core and PEI |
| 8.1.1.2 | RRC connection establishment |  |  |  |
| 8.1.1.2.1 | RRC connection establishment / Return to idle state after T300 expiry | Rel-15 | C21 | UEs supporting 5G Core |
| 8.1.1.2.2 | Void |  |  |  |
| 8.1.1.2.3 | RRC connection establishment / RRC Reject with wait time | Rel-15 | C21 | UEs supporting 5G Core |
| 8.1.1.2.4 | RRC connection establishment / Extended value, spare fields and non-critical extensions in SI | Rel-15 to Rel-17 only | C21 | UEs supporting 5G Core |
| ...... | | | | |
| 8.1.6.1.2 | Logged MDT |  |  |  |
| 8.1.6.1.2.1 | Logged MDT / RRC\_IDLE / Logging and reporting / Intra-frequency measurement | Rel-16 | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.2 | Logged MDT / RRC\_INACTIVE / Logging and reporting / Inter-frequency measurement | Rel-16 | C125 | UEs supporting 5G core and RRC\_INACTIVE and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.3 | Logged MDT / RRC\_IDLE / Logging and reporting / Limiting area scope | Rel-16 | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.4 | logged MDT/ RRC\_IDLE / Logging and reporting / periodic measurement trigger | Rel-16 | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.5 | logged MDT/ RRC\_IDLE / Logging and reporting / event-based trigger | Rel-16 | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.6 | logged MDT/ RRC\_IDLE / Logging and reporting / event-based trigger / out-of-coverage | Rel-16 | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.7 | Logged MDT / RRC\_IDLE / Logging and reporting / Reporting at NR re-establishment | Rel-16 | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.8 | Logged MDT / Logging and reporting / Reporting at RRC reconfiguration | Rel-16 | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.9 | Logged MDT / Location information | Rel-16 | C124 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE and equipped with a GNSS receiver to provide detailed location information. |
| 8.1.6.1.2.10 | Logged MDT / Maintaining logged measurement configuration / UE mobility | Rel-16 | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.11 | Logged MDT / Maintaining logged measurement configuration / UE state transitions | Rel-16 | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.12 | Logged MDT / Release of logged MDT measurement configuration / Expire of duration timer | Rel-16 | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.13 | Logged MDT / Release of logged MDT measurement configuration / Reception of new logged measurement configuration | Rel-16 | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.14 | Logged MDT / RRC\_IDLE / Logging and reporting / IDC mechanism | Rel-17 | C266 | UEs supporting 5G core with FR1 Band n40 or Band n41 and WLAN, logged measurements in RRC\_IDLE and RRC\_INACTIVE, reporting of affected NR carrier frequencies in IDC assistance information, and transmitting UEAssistanceInformation message with IDC-Assistance-r16 in RRC\_CONNECTED when an IDC problem is detected in RRC\_IDLE |
| 8.1.6.1.2.15 | Logged MDT / RRC\_IDLE / early measurements | Rel-17 | C267 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE and early measurements |
| 8.1.6.1.2.16 | Logged MDT / RRC\_IDLE / sig-based logged MDT | Rel-17 | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |

Table 4.1-3b: Additional Information of Applicability of Protocol conformance RRC test cases, ref. TS 38.523-1 [2]

| Clause | Specific ICS | Specific IXIT | **Number of TC Executions** | **Release other RAT** |
| --- | --- | --- | --- | --- |
| 8.1.1 |  |  |  |  |
| 8.1.1.1 |  |  |  |  |
| 8.1.1.1.1 | pc\_inactiveState |  |  |  |
| 8.1.1.1.2 | pc\_inactiveState |  |  |  |
| 8.1.1.3 |  |  |  |  |
| 8.1.1.3.2 |  |  |  | Rel-15 E-UTRA |
| 8.1.1.3.4 |  |  |  | Rel-15 E-UTRA |
| 8.1.1.3.7a |  |  |  | Rel-15 E-UTRA |
| 8.1.2 |  |  |  |  |
| 8.1.2.1 |  |  |  |  |
| 8.1.2.1.6 | pc\_Set\_MUSIM\_UAI\_Info\_NR |  |  |  |
| 8.1.3 |  |  |  |  |
| 8.1.3.1 |  |  |  |  |
| 8.1.3.1.2 |  |  |  |  |
| 8.1.3.1.3 |  |  | If 8.1.3.1.2 is executed this test case is optional (Note 2) |  |
| 8.1.3.1.4 |  |  | If 8.1.3.1.2 or 8.1.3.1.3 is executed this test case is optional (Note 2) |  |
| 8.1.3.1.5 |  |  | If 8.1.3.1.6 is executed this test case is optional (Note 2) |  |
| 8.1.3.1.6 |  |  |  |  |
| 8.1.3.1.7 |  |  | If 8.1.3.1.5 or 8.1.3.1.6 is executed this test case is optional (Note 2) |  |
| 8.1.3.1.8 |  |  | If 8.1.3.1.9 or 8.1.3.1.10 is executed this test case is optional (Note 2) |  |
| 8.1.3.1.9 |  |  | If 8.1.3.1.10 is executed this test case is optional (Note 2) |  |
| 8.1.3.1.10 |  |  |  |  |
| 8.1.3.1.23 | pc\_inactiveState |  |  |  |
| 8.1.3.1.26 | pc\_ntn\_ScenarioSupport\_r17\_GSO  pc\_ntn\_ScenarioSupport\_r17\_NGSO | px\_NTN\_ScenarioUnderTest | Note 5 |  |
| 8.1.3.1.27 | pc\_ntn\_ScenarioSupport\_r17\_GSO  pc\_ntn\_ScenarioSupport\_r17\_NGSO | px\_NTN\_ScenarioUnderTest | Note 5 |  |
| 8.1.3.2 |  |  |  |  |
| 8.1.3.2.6 |  |  |  | Rel-16 UTRA |
| 8.1.3.2.7 |  |  |  | Rel-16 UTRA |
| 8.1.4 |  |  |  |  |
| 8.1.4.1 |  |  |  |  |
| 8.1.4.1.2 |  | px\_NAS\_5GC\_CipheringAlgorithm  px\_NAS\_5GC\_IntegrityAlgorithm |  |  |
| 8.1.4.1.10 |  |  | Note 4 |  |
| 8.1.4.2 |  |  |  |  |
| 8.1.4.2.1 |  |  |  |  |
| 8.1.4.2.1.1 |  |  |  | Rel-15 E-UTRA |
| 8.1.4.2.1.2 |  |  |  | Rel-16 EN-DC |
| 8.1.4.2.2 |  |  |  |  |
| 8.1.4.2.2.1 |  |  |  | Rel-15 E-UTRA |
| 8.1.4.3 |  |  |  |  |
| 8.1.4.3.4 |  |  |  |  |
| 8.1.4.3.4.1 |  |  | If 8.1.4.3.4.2 is executed this test case is optional |  |
| 8.1.4.3.4.2 |  |  | If 8.1.4.3.4.1 is executed this test case is optional |  |
| 8.1.4.3.5 |  |  |  |  |
| 8.1.4.3.5.1 |  |  | If 8.1.4.3.5.2 is executed this test case is optional |  |
| 8.1.4.3.5.2 |  |  | If 8.1.4.3.5.1 is executed this test case is optional |  |
| 8.1.4.4 |  |  |  |  |
| 8.1.4.4.5 | pc\_ntn\_ScenarioSupport\_r17\_GSO  pc\_ntn\_ScenarioSupport\_r17\_NGSO | px\_NTN\_ScenarioUnderTest | Note 5 |  |
| 8.1.4.4.6 | pc\_ntn\_ScenarioSupport\_r17\_GSO  pc\_ntn\_ScenarioSupport\_r17\_NGSO | px\_NTN\_ScenarioUnderTest | Note 5 |  |
| 8.1.4.4.7 | pc\_ntn\_ScenarioSupport\_r17\_GSO  pc\_ntn\_ScenarioSupport\_r17\_NGSO | px\_NTN\_ScenarioUnderTest | Note 5 |  |
| **8.1.5** |  |  |  |  |
| **8.1.5.1** |  |  |  |  |
| 8.1.5.1.1 |  |  | If 8.2.1.1.2 is executed this test case is optional |  |
| **8.1.5.7** |  |  |  |  |
| **8.1.5.7.1** |  |  |  |  |
| 8.1.5.7.1.1 |  |  | If 8.1.5.7.1.2 or 8.1.5.7.1.3 is executed this test case is optional |  |
| 8.1.5.7.1.2 |  |  | If 8.1.5.7.1.1 or 8.1.5.7.1.3 is executed this test case is optional |  |
| 8.1.5.7.1.3 |  |  | If 8.1.5.7.1.1 or 8.1.5.7.1.2 is executed this test case is optional |  |
| **8.1.5.8** |  |  |  |  |
| 8.1.5.8.1 | pc\_inactiveState |  |  |  |
| **8.1.5.8.2** |  |  |  |  |
| 8.1.5.8.2.1 | pc\_inactiveState |  | If 8.1.5.8.2.2 or 8.1.5.8.2.3 is executed this test case is optional |  |
| 8.1.5.8.2.2 | pc\_inactiveState |  | If 8.1.5.8.2.1 or 8.1.5.8.2.3 is executed this test case is optional |  |
| 8.1.5.8.2.3 | pc\_inactiveState |  | If 8.1.5.8.2.1 or 8.1.5.8.2.2 is executed this test case is optional |  |
| **8.1.5.9** |  |  |  |  |
| 8.1.5.9.1 | pc\_Set\_UE\_Cap\_Info\_NR |  |  |  |
| **8.1.5.14** |  |  |  |  |
| 8.1.5.14.1 | pc\_ntn\_ScenarioSupport\_r17\_GSO  pc\_ntn\_ScenarioSupport\_r17\_NGSO | px\_NTN\_ScenarioUnderTest | Note 5 |  |
| **8.1.6** |  |  |  |  |
| **8.1.6.1** |  |  |  |  |
| **8.1.6.1.2** |  |  |  |  |
| 8.1.6.1.2.14 |  |  | Note X |  |
| **8.1.6.1.3** |  |  |  |  |
| 8.1.6.1.3.1 |  |  | If 8.1.6.1.3.5 is executed this test case is optional. |  |
| **8.1.6.2** |  |  |  |  |
| 8.1.6.2.1 |  |  |  | Rel-15 E-UTRA |
| 8.1.6.2.2 |  |  |  | Rel-15 E-UTRA |
| 8.1.6.2.3 |  |  |  | Rel-15 E-UTRA |
| 8.1.6.2.4 |  |  |  | Rel-15 E-UTRA |
| 8.2.1 |  |  |  |  |
| 8.2.2 |  |  |  |  |
| 8.2.2.1 |  |  |  |  |
| 8.2.2.1.1 |  |  | Only executed if test case 8.2.2.3.1 is not applicable (Note 1) |  |
| 8.2.2.1.2 |  |  | Only executed if test case 8.2.2.3.2 is not applicable (Note 1) |  |
| 8.2.3 |  |  |  |  |
| 8.2.3.6 |  |  |  |  |
| 8.2.3.6.1 |  |  |  |  |
| 8.2.3.6.1a |  |  | If 8.2.3.6.1 is executed this test case is optional (Note 3) |  |
| 8.2.3.6.1b |  |  | If 8.2.3.6.1 or 8.2.3.6.1a is executed this test case is optional (Note 3) |  |
| 8.2.3.7 |  |  |  |  |
| 8.2.3.7.1 |  |  |  |  |
| 8.2.3.7.1a |  |  | If 8.2.3.7.1 is executed this test case is optional (Note 3) |  |
| 8.2.3.7.1b |  |  | If 8.2.3.7.1 or 8.2.3.7.1a is executed this test case is optional (Note 3) |  |
| 8.2.3.8 |  |  |  |  |
| 8.2.3.8.1 |  |  |  |  |
| 8.2.3.8.1a |  |  | If 8.2.3.8.1 is executed this test case is optional (Note 3) |  |
| 8.2.3.8.1b |  |  | If 8.2.3.8.1 or 8.2.3.8.1a is executed this test case is optional (Note 3) |  |
| 8.2.4 |  |  |  |  |
| 8.2.4.1 |  |  |  |  |
| 8.2.4.1.1 |  |  |  |  |
| 8.2.4.1.1.4 |  |  |  | Rel-15 E-UTRA |
| 8.2.4.1.1.5 |  |  |  | Rel-15 E-UTRA |
| 8.2.4.1.1.6 |  |  |  | Rel-15 E-UTRA |
| 8.2.6 |  |  |  |  |
| 8.2.6.1 |  |  |  |  |
| 8.2.6.1.1 |  |  |  |  |
| 8.2.6.1.1.1 |  |  | If 8.2.6.1.1.2 or 8.2.6.1.1.3 is executed this test case is optional |  |
| 8.2.6.1.1.2 |  |  | If 8.2.6.1.1.1 or 8.2.6.1.1.3 is executed this test case is optional |  |
| 8.2.6.1.1.3 |  |  | If 8.2.6.1.1.1 or 8.2.6.1.1.2 is executed this test case is optional |  |
| **8.2.6.1.2** |  |  |  |  |
| 8.2.6.1.2.1 |  |  | If 8.2.6.1.2.2 or 8.2.6.1.2.3 is executed this test case is optional |  |
| 8.2.6.1.2.2 |  |  | If 8.2.6.1.2.1 or 8.2.6.1.2.3 is executed this test case is optional |  |
| 8.2.6.1.2.3 |  |  | If 8.2.6.1.2.1 or 8.2.6.1.2.2 is executed this test case is optional |  |
| **8.2.6.2** |  |  |  |  |
| 8.2.6.2.4 | pc\_reducedCP\_Latency |  |  |  |
| Note 1: Test cases 8.2.2.3.1 also verifies the core requirements covered by test case 8.2.2.1.1 but it is not applicable to all UE. Test case 8.2.2.3.2 and 8.2.2.1.2 are also in the same situation.  Note 2: Only one among the three intra-frequency, inter-frequency and inter-band variants is required to be executed making sure all three variants are tested at least once across measurement events A3/A4/A5.  Note 3: Only intra frequency among the three (intra-frequency, inter-frequency and inter-band) variants is required to be executed for measurement events A3/A4/A5 based on initial market requirements. May change in future similar to Note 2.  Note 4: This test case can optionally be executed from Release 15 onwards.  Note 5: The TC contains multi-NTN branches not all mandatory in the scope of the TC. Execution branch depends on the supporting capabilities of pc\_ntn\_ScenarioSupport\_r17\_GSO or pc\_ntn\_ScenarioSupport\_r17\_NGSO. For UEs supporting both GSO AND NGSO the TC should be executed either on GSO or NGSO scenario.  Note X: This TC is applicable to both frequency band n40 and n41. | | | | |

**< Unchanged sections omitted >**

## 4.2 Protocol conformance test cases applicability conditions

Table 4.2-1: Applicability of Protocol conformance test cases Conditions

| Condition | Test case Selection Expression | Comment |
| --- | --- | --- |
| C01 | IF A.4.1-3/2 THEN R ELSE N/A | UEs supporting EN-DC |
| C02 | IF A.4.3.4-1/2 OR A.4.3.4-1/3 THEN R ELSE N/A | UEs supporting 5GS and RLC UM Mode |
| C03 | IF A.4.3.5-1/1 THEN R ELSE N/A | UEs supporting 5GS and Long DRX Cycle |
| C04 | IF A.4.3.5-1/2 THEN R ELSE N/A | UEs supporting 5GS and short DRX cycle |
| C05 | IF A.4.3.4-1/3 THEN R ELSE N/A | UEs supporting 5GS and RLC UM with 6-bit length of RLC sequence number |
| C06 | IF A.4.3.4-1/2 THEN R ELSE N/A | UEs supporting 5GS and RLC UM with 12-bit length of RLC sequence number |
| ...... | | |
| C266 | IF A.4.1-5/1 AND A.4.4-1/6 AND (A.4.3.1-2/1b OR A.4.3.1-2/2) AND [10]A.4.1-1/5 AND A.4.3.7-1/67 AND A.4.4-2/13 THEN R ELSE N/A | UEs supporting 5G core with FR1 Band n40 or Band n41 and WLAN, logged measurements in RRC\_IDLE and RRC\_INACTIVE, reporting of affected NR carrier frequencies in IDC assistance information, and transmitting UEAssistanceInformation message with IDC-Assistance-r16 in RRC\_CONNECTED when an IDC problem is detected in RRC\_IDLE |
| C267 | IF A.4.1-5/1 AND A.4.4-1/6 AND A.4.4-1/22 THEN R ELSE N/A | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE and early measurements |
| C268 | IF A.4.1-3/3 AND A.4.3.6-1/75 THEN R ELSE N/A | UEs supporting NE-DC and SFTD measurement between NR PCell and E-UTRA PSCell |

<End of modified section>