3GPP TSG SA WG5 Meeting 135-e TDoc S5-211206

electronic meeting, online, 25 January - 3 February 2021

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
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|  | **130** | **CR** | **07** | **rev** |  | **Current version:** |  |  |
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| *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 | **X** | Core Network | **X** |

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| ***Title:***  | Add NG-RAN sharing deployment example |
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| ***Source to WG:*** |  |
| ***Source to TSG:*** | SA5 |
|  |  |
| ***Work item code:*** | MANS |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** | 7 |
|  | *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 canbe 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)* |
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| ***Reason for change:*** | 5G MOCN supports NG-RAN Sharing with or without multiple Cell Identity broadcast, but it is not clear how NG-RAN Sharing with multiple Cell Identity broadcast can be deployed. |
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| ***Summary of change:*** | 1. Add necessary references
2. Add a NG-RAN sharing deployment example in the annex.
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| ***Consequences if not approved:*** | It will be still unclear how NG-RAN Sharing with multiple Cell Identity broadcast can be deployed.. |
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| ***Clauses affected:*** | 2, Annex X (new) |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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| **1st of Changes** |

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 32.101: "Telecommunication management; Principles and high level requirements".

[3] 3GPP TS 32.102: "Telecommunication management; Architecture".

[4] 3GPP TS 36.300: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Overall description; Stage 2".

[5] 3GPP TS 23.251: "Network sharing; Architecture and functional description".

[6] 3GPP TS 36.314: "Evolved Universal Terrestrial Radio Access (E-UTRA); Layer 2 – Measurements"

[x] 3GPP TS 23.501: "System architecture for the 5G System (5GS)".

[y] 3GPP TS 38.331: “NR; Radio Resource Control (RRC); Protocol specification”

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| **Next Change** |

Annex X (informative):
Network sharing deployment examples

## X.1 Deployment examples of 5G MOCN NG-RAN sharing

In TS 23.501 [x], it is mentioned that “5G MOCN supports NG-RAN Sharing with or without multiple Cell Identity broadcast as described in TS 38.300.”

In TS 38.331 [y], multiple Cell Identity broadcast is reflected in the definition of SIB1/PLMN-IdentityInfoList. The figure below is an example of the mapping from the PLMN-IdentityInfoLists in the SIB1 broadcast to the NCGIs.



Figure X.1-1: Example of the mapping from the PLMN-IdentityInfoLists in the SIB1 broadcast to the NCGIs

In the 5G MOCN NG-RAN Sharing without multiple Cell Identity broadcast scenario, there is only one PLMN-IdentityInfoList in the SIB1 broadcast, which only maps to one NCGI. The figure below depicts a deployment example for this scenario.



Figure X.1-2: Deployment example of NG-RAN Sharing without multiple Cell Identity broadcast

In the 5G MOCN NG-RAN Sharing with multiple Cell Identity broadcast scenario, there are more than one PLMN-IdentityInfoLists in the SIB1 broadcast, which map to more than one NCGIs. The figure below depicts a deployment example for this scenario.



Figure X.1-3: Deployment example of NG-RAN Sharing with multiple Cell Identity broadcast

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| **End of Change** |