**3GPP TSG-RAN WG2 Meeting #114-e *R2-2106718***

**Electronic Meeting, 19th May – 27th May 2021**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
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|  |  | **CR** |  | **rev** | **2** | **Current version:** | **1** |  |
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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 |  |

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| ***Title:***  | Clean-up of INM procedure text |
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| ***Source to WG:*** | Ericsson, Nokia, Nokia Shanghai Bell, Samsung, NTT DOCOMO, INC, ZTE, NEC Corporation |
| ***Source to TSG:*** | R2  |
|  |  |
| ***Work item code:*** | NR\_newRAT-Core, TEI16  |  | ***Date:*** | 2021-05-10 |
|  |  |  |  |  |
| ***Category:*** | **A** |  | ***Release:*** | Rel-16 |
|  | *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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** | 1. Existing text on fields in CG-Config and CG-ConfigInfo is organized in three parts
	* Fields that convey the UE configuration
	* Fields that are always included
	* Fields that use a delta signalling variant

But the text is not well organized and well-structured1. The text that covers fields in CG-Config and CG-Configinfo that conveys the UE configuration is incomplete, i.e. CG-Config and CG-ConfigInfo are described differently.
2. The list of fields that are subject to the delta signalling variant contains fields sent by both MN and SN, but existing text inticates that the list covers only fields sent by the MN.
3. Text on that the fields *newUE-Identity* and *t304* included in ReconfigurationWithSync are not used for delta configuration purpose need to be more clear.
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| ***Summary of change:*** | 1. Existing text is re-arranged to get a more logical order of the categorization of fields in CG-Config and CG-ConfigInfo
2. The sentence that covers fields in CG-Config and CG-Configinfo that conveys the UE configuration is replaced by a sentence that is more complete and describes CG-Config and CG-ConfigInfo in the same way.
3. Clarified that the list of fields subject to the delta signalling variant contains fields sent by both MN and SN.
4. Improved the text that descibes the handling of the fields *newUE-Identity* and *t304* included in ReconfigurationWithSync.

Some other changes are made to improve the text.**Impact Analysis**Impacted 5G architecture options: (NG)EN-DC, NE-DC,NR-DC Impacted functionality: Inter-Node MessagesInter-operability:The CR has no UE impact.No impact on MN and SN as this is purely editorial change or better reorganization of existing text. |
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| ***Consequences if not approved:*** | Unclear and un-structured text will remain in the specification. |
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| ***Clauses affected:*** | 11.2.3 |
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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:*** |  |

START OF CHANGE

### 11.2.3 Mandatory information in inter-node RRC messages

For the *AS-Config* transferred within the *HandoverPreparationInformation*:

- The source node shall include all fields necessary to reflect current the AS configuration of the UE, except for the fields *sourceSCG-NR-Config*, *sourceSCG-EUTRA-Config* and *sourceRB-SN-Config*, which can be omitted in case the source MN did not receive the latest configuration from the source SN. For *RRCReconfiguration* included in the field *rrcReconfiguration*, *ReconfigurationWithSync* is included with only the mandatory subfields (e.g. *newUE-Identity* and *t304*) and *ServingCellConfigCommon*;

- Need codes or conditions specified for subfields according to IEs defined in clause 6 do not apply. I.e. some fields shall be included regardless of the "Need" or "Cond" e.g. *discardTimer*;

- Based on the received AS configuration, the target node can indicate the delta (difference) to the current AS configuration (as included in *HandoverCommand*) to the UE. The fields *newUE-Identity* and *t304* included in *ReconfigurationWithSync* are not used for delta configuration purpose.

The *candidateCellInfoListSN*(-*EUTRA*) in *CG-Config* and the *candidateCellInfoListMN*(*-EUTRA*)/*candidateCellInfoListSN*(-*EUTRA*) in *CG-ConfigInfo* need not be included in procedures that do not involve a change of node.

For fields *scg-CellGroupConfig* and *scg-RB-Config* in *CG-Config* (sent upon SN initiated SN change or SCG configuration query) and fields *mcg-RB-Config*, *scg-RB-Config* and *sourceConfigSCG* in *CG-ConfigInfo* (sent upon change of SN):

 - The source node shall include all fields necessary to reflect the current AS configuration of the UE, unless stated otherwise in the field description. For *RRCReconfiguration* included in the field *scg-CellGroupConfig in CG-Config*, *ReconfigurationWithSync* is included with only the mandatory subfields (e.g. *newUE-Identity* and *t304*) and *ServingCellConfigCommon*;

- Need codes or conditions specified for subfields according to IEs defined in clause 6 do not apply;

- Based on the received AS configuration, the target node can indicate the delta (difference) as compared to the current AS configuration to the UE. The fields *newUE-Identity* and *t304* in *ReconfigurationWithSync* are always included by the target node, i.e. they are not used for delta configuration purpose to UE.

For fields in *CG-Config* and *CG-ConfigInfo* listed below, absence of the field means that the receiver maintains the values informed via the previous message. Note that every time there is a change in the configuration covered by a listed field, the MN or SN shall include the field and it shall provide the full configuration provided by that field. Otherwise, if there is no change, the field can be omitted:

- *configRestrictInfo*;

- *gapPurpose;*

- *measGapConfig* (for which delta signaling applies);

*- measGapConfigFR2* (for which delta signaling applies);

- *measResultCellListSFTD*;

*- measResultSFTD-EUTRA*;

- *sftdFrequencyList-EUTRA*;

*- sftdFrequencyList-NR;*

- *ue-CapabilityInfo;*

*- servFrequenciesMN-NR;*

*- scellFrequenciesSN-EUTRA;*

*- scellFrequenciesSN-NR*.

For other fields in CG-Config and CG-ConfigInfo, the sender shall always signal the appropriate value even if same as indicated in the previous inter-node message, unless explicitly stated otherwise.

END OF CHANGE