**3GPP TSG-RAN WG3 Meeting #119bis-e *R3-232053***

**Electronic meeting, 17 Apr – 26 Apr, 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **38.413** | **CR** | **0968** | **rev** | **1** | **Current version:** | 17.4.0 |  |
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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:*** | Correction of RRC Resume Cause in PATH SWITCH REQUEST message | | | | | | | | | |
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| ***Source to WG:*** | Huawei, Deutsche Telekom, Nokia, Nokia Shanghai Bell, Ericsson | | | | | | | | | |
| ***Source to TSG:*** | R3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NB\_IOTenh3-Core | | | | |  | ***Date:*** | | | 2023-04-17 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **A** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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)* | |
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| ***Reason for change:*** | | In order to support User Plane CIoT 5GS optimization, it is specified as follows that the resume cause is sent in the Path Switch Request message when received over the radio interface. Then the AMF can inform the SMF of the UE’s use of MO Exception Data accordingly (see the agreed R3-203267, and see the section 4.8.2.3 in TS 23.502).   * *When the NG-RAN node has received from the radio interface the RRC Resume Cause IE, it shall include it in the PATH SWITCH REQUEST message.*   But according to the current procedure text, in case of NR access, e.g, in case when inactive UE moves to a different cell from its anchor cell, the gNB should also send the resume cause as well.  First this is not specified in SA2 specifications to deliver the resume cause during the RRC inactive transition. Also, there is no need for the AMF to be aware of the resume cause for RRC-inactive state since the CN considers the UE at CM-connected state. | | | | | | | | |
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| ***Summary of change:*** | | Update the procedure texts that the ng-eNB needs to provide the resume cause only in case of User Plane CIoT 5GS Optimisation.    Impact Analysis:  Impact assessment towards the previous version of the specification (same release):  This CR has isolated impact with the previous version of the specification (same release).  The impact can be considered isolated because the change only affects the resume cause report in the path switch request procedure. | | | | | | | | |
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| ***Consequences if not approved:*** | | Misinterpretion of the procedure texts applicable for the NR access.  Misalignment between the RAN3 and SA2 specifications. | | | | | | | | |
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| ***Clauses affected:*** | | 8.4.4.2 | | | | | | | | |
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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 ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev0: R3-231370  Rev1: R3-232053  Update the procedure texts from the receiver’s perspective. | | | | | | | | |

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| **Change Begins** |

### 8.4.4 Path Switch Request

#### 8.4.4.1 General

The purpose of the Path Switch Request procedure is to establish a UE associated signalling connection to the 5GC and, if applicable, to request the switch of the downlink termination point of the NG-U transport bearer towards a new termination point. The procedure uses UE-associated signalling.

#### 8.4.4.2 Successful Operation



Figure 8.4.4.2-1: Path switch request: successful operation

The NG-RAN node initiates the procedure by sending the PATH SWITCH REQUEST message to the AMF. Upon reception of the PATH SWITCH REQUEST message the AMF shall, for each PDU session indicated in the *PDU Session ID* IE, transparently transfer the *Path Switch Request Transfer* IE to the SMF associated with the concerned PDU session.

If the *RRC Resume Cause* IE is included in the PATH SWITCH REQUEST message, the AMF shall, if supported, use it as described in TS 23.501 [9] for User Plane CIoT 5GS Optimisation when the NG-RAN node is an ng-eNB.

**<Unchanged Text Omitted>**

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| **Change Ends** |