3GPP TSG-RAN WG3 #114-e R3-21xxxx

1-11 Nov 2021

Online

**Title:** TP for SCG BL CR to TS38.423

**Source:** ZTE

**Agenda item:** 14.2

**Document for:** Approval

# Text Proposal for TS38.423

**--------------------------------------------------Start of the change---------------------------------------------------**

8.3.1 S-NG-RAN node Addition Preparation

8.3.1.1 General

The purpose of the S-NG-RAN node Addition Preparation procedure is to request the S-NG-RAN node to allocate resources for dual connectivity operation for a specific UE.

The procedure uses UE-associated signalling.

8.3.1.2 Successful Operation

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**Figure 8.3.1.2-1: S-NG-RAN node Addition Preparation, successful operation**

The M-NG-RAN node initiates the procedure by sending the S-NODE ADDITION REQUEST message to the S-NG-RAN node.

When the M-NG-RAN node sends the S-NODE ADDITION REQUEST message, it shall start the timer TXnDCprep.

<Unrelated part omitted>

For each DRB configured as MN-terminated split bearer/SCG bearer, if the *QoS Mapping Information* IE is included in the *DRBs Admitted List* IE in the *PDU Session Resource Setup Response Info – MN terminated* IE of the S-NODE ADDITION REQUEST ACKNOWLEDGE message, the M-NG-RAN node shall, if supported, use it to set DSCP and/or flow label fields for the downlink IP packets which are transmitted from M-NG-RAN node to S-NG-RAN node through the GTP tunnels indicated by the *UP Transport Layer Information* IE.

If the *SCG Activation Status* IE is included in the S-NODE ADDITION REQUEST message, the S-NG-RAN node may use it to configure SCG resources as specified in TS 37.340 [8], and if supported, shall include the *SCG Activation Response* IE in the S-NODE ADDITION REQUEST ACKNOWLEDGE message.

*Editor’s note: Partial rejection is allowed if the MN indicates SCG may be deactivated. FFS under what other conditions where the partial acceptance/rejection is allowed for the SCG state change in the SN Addition procedure.*

**Interactions with the S-NG-RAN node Reconfiguration Completion procedure:**

If the S-NG-RAN node admits at least one PDU session resource, the S-NG-RAN node shall start the timer TXnDCoverall when sending the S-NODE ADDITION REQUEST ACKNOWLEDGE message to the M-NG-RAN node. The reception of the S-NODE RECONFIGURATION COMPLETE message shall stop the timer TXnDCoverall.

**Interaction with the Activity Notification procedure**

Upon receiving an S-NODE ADDITION REQUEST message containing the *Desired Activity Notification Level* IE, the S-NG-RAN node shall, if supported, use this information to decide whether to trigger subsequent Activation

**-----------------------------------------------------Next change-----------------------------------------------------------**

9.1.2.2 S-NODE ADDITION REQUEST ACKNOWLEDGE

This message is sent by the S-NG-RAN node to confirm the M-NG-RAN node about the S-NG-RAN node addition preparation.

Direction: S-NG-RAN node → M-NG-RAN node.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IE/Group Name** | **Presence** | **Range** | **IE type and reference** | **Semantics description** | **Criticality** | **Assigned Criticality** |
| Message Type | M |  | 9.2.3.1 |  | YES | reject |
| M-NG-RAN node UE XnAP ID | M |  | NG-RAN node UE XnAP ID9.2.3.16 | Allocated at the M-NG-RAN node | YES | reject |
| S-NG-RAN node UE XnAP ID | M |  | NG-RAN node UE XnAP ID9.2.3.16 | Allocated at the S-NG-RAN node | YES | reject |
| **PDU Session Resources Admitted To Be Added List** |  | *1* |  |  | YES | ignore |
| **>PDU Session Resources Admitted To Be Added Item** |  | *1 .. <maxnoofPDUSessions>* |  | NOTE: If neither the *PDU Session Resource Setup Response Info – SN terminated* IE nor the*PDU Session Resource Setup Response Info – MN terminated* IEis present in a *PDU Session Resources Admitted to be Added Item* IE, abnormal conditions as specified in clause 8.3.1.4 apply. | – |  |
| >>PDU Session ID | M |  | 9.2.3.18 |  | – |  |
| >>PDU Session Resource Setup Response Info – SN terminated | O |  | 9.2.1.6 |  | – |  |
| >>PDU Session Resource Setup Response Info – MN terminated | O |  | 9.2.1.8 |  | – |  |
| **PDU Session Resources Not Admitted List** | O |  |  |  | YES | ignore |
| >PDU Session Resources Not Admitted List – SN terminated | O |  | PDU Session Resources Not Admitted List9.2.1.3 |  | – |  |
| >PDU Session Resources Not Admitted List – MN terminated | O |  | PDU Session Resources Not Admitted List9.2.1.3 |  | – |  |
| S-NG-RAN node to M-NG-RAN node Container | M |  | OCTET STRING | Includes the *CG-Config* message as defined in subclause 11.2.2 of TS 38.331 [10]. | YES | reject |
| Admitted Split SRBs | O |  | ENUMERATED (srb1, srb2, srb1&2, ...) | Indicates admitted SRBs | YES | reject |
| RRC Config Indication | O |  | 9.2.3.72 |  | YES | reject |
| Criticality Diagnostics | O |  | 9.2.3.3 |  | YES | ignore |
| Location Information at S-NODE | O |  | Target Cell Global ID9.2.3.25 | Contains information to support localisation of the UE | YES | ignore |
| MR-DC Resource Coordination Information | O |  | 9.2.2.33 | Information used to coordinate resource utilisation between M-NG-RAN node and S-NG-RAN node.  | YES | ignore |
| Available fast MCG recovery via SRB3 | O |  | ENUMERATED (true, ...) | Indicates the fast MCG recovery via SRB3 isenabled. | YES | ignore |
| SCG Activation Response | O |  | 9.2.3.xxy |  | YES | ignore |

|  |  |
| --- | --- |
| **Range bound** | **Explanation** |
| maxnoofPDUSessions | Maximum no. of PDU sessions. Value is 256 |

**------------------------------------------------------End of the change---------------------------------------------------**