**3GPP TSG-RAN WG3 Meeting #115-e *R3-222157***

**E-meeting, 21 Feb – 3 Mar 2022**

**Title:** (TP to SCG BL CR for TS 38.401) the SCG status notification to CU-UP

**Source:** Huawei

**Agenda item:** 14.2

**Document Type:** other

# Introduction

This contribution provides the TP to SCG BL CR for TS 38.401 to refelect achieved agreements.

# TP to SCG BL CR for TS 38.401

***--------------------------------Start of the First Change-----------------------------***

### 8.4.x SCG Deactivation and Activation

This clause gives the NR SCG deactivation and activation in EN-DC and MR-DC with NR SN given that the en-gNB and SgNB consists of a gNB-CU and gNB-DU(s).

#### 8.4.x.1 SN Addition with SCG Activation or Deactivation



**Figure 8.4.x.1-1: SCG Deactivation in SN Addition procedure**

1. The MN sends the SN addition Request towards the SN, indicates the request of SCG activation or deactivation.

2. The SN-CU-CP sends BEARER CONTEXT SETUP REQUEST message to the SN-CU-UP to setup bearer context and notify the activation or deactivation of the SCG.

3. The SN-CU-UP sends the BEARER CONTEXT SETUP RESPONSE message to the SN-CU-CP.

4. The SN-CU sends the UE CONTEXT SETUP REQUEST message to the SN-DU to setup UE context and indicate the request of SCG activation or deactivation.

5. The SN-DU sends the UE CONTEXT SETUP RESPONSE message to the SN-CU, indicates the SCG status. In case SCG activation is requested, the SN-DU shall indicates SCG activated in the message.

6. The SN-CU-CP sends BEARER CONTEXT MODIFICATION REQUEST message to the SN-CU-UP to setup bearer context and notify the SCG status.

7. The SN-CU-UP sends the BEARER CONTEXT SETUP RESPONSE message to the SN-CU-CP.

8. The SN sends the SN addition Request Acknowledge towards the MN, indicates the SCG status. In case SCG activation is requested, the SN shall indicates SCG activated in the message.

#### 8.4.x.2 MN initiated SN Modification with SCG Activation or Deactivation



**Figure 8.4.x.2-1: SCG Deactivation in MN initiated SN Modification procedure**

1. SCG is deactivated or activated.

2. The MN sends the SN Modification Request towards the SN, indicates the request of SCG activation or deactivation.

3. The SN-CU-CP sends BEARER CONTEXT MODIFICATION REQUEST message to the SN-CU-UP to notify the SCG activation or deactivation.

4. The SN-CU-UP sends the BEARER CONTEXT MODIFICATION RESPONSE message to the SN-CU-CP.

5. The SN-CU sends the UE CONTEXT MODIFICATION REQUEST message to the SN-DU to indicate the request of SCG activation or deactivation.

6. The SN-DU sends the UE CONTEXT MODIFICATION RESPONSE message to the SN-CU, indicates the SCGstatus.

Step 7 and 8 may be skiped in case the SN-DU accepted the SCG activation or deactivation request.

7. The SN-CU-CP sends BEARER CONTEXT MODIFICATION REQUEST message to the SN-CU-UP to notify the SCG status.

8. The SN-CU-UP sends the BEARER CONTEXT MODIFICATION RESPONSE message to the SN-CU-CP.

9. The SN sends the SN Modification Request Acknowledge towards the MN, indicates the SCG status.

#### 8.4.x.3 SN initiated SN Modification with SCG Activation or Deactivation



**Figure 8.4.x.3-1: SCG Deactivation in SN initiated SN Modification procedure**

1. SCG is deactivated or activated.

2. The SN-CU-CP sends BEARER CONTEXT MODIFICATION REQUEST message to the SN-CU-UP to notify the SCG activation or activation.

3. The SN-CU-UP sends the BEARER CONTEXT MODIFICATION RESPONSE message to the SN-CU-CP.

4. The SN-CU sends the UE CONTEXT MODIFICATION REQUEST message to the SN-DU to indicate the request of SCG activation or deactivation.

5. The SN-DU sends the UE CONTEXT MODIFICATION RESPONSE message to the SN-CU, indicates the SCG status.

Step 6 and 7 may be skiped in case the SN-DU accepted the SCG activation or deactivation request.

6. The SN-CU-CP sends BEARER CONTEXT MODIFICATION REQUEST message to the SN-CU-UP to notify the SCG status.

7. The SN-CU-UP sends the BEARER CONTEXT MODIFICATION RESPONSE message to the SN-CU-CP.

Step 8 and 9 will be skipped in case the SN-DU rejected the SCG activation or deactivation request.

8. The SN sends the SN Modification Require towards the MN, indicates the request of SCG activation or deactivation.

9. The MN sends the SN Modification Confirm towards the SN.

***-------------------End of the Change-------------------***