**3GPP TSG-RAN WG3 Meeting #114-e R3-216037**

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**Title:** (TP to 38.401 SCG BL CR) SCG activation and deactivation

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# 1. TP to 38.401 SCG BL CR

***--------------------------------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 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 deactivation.

2. The SN-CU-CP sends BEARER CONTEXT SETUP REQUEST message to the SN-CU-UP to setup bearer context and indicates that the SCG is to be deactivated.

Editor’s note: It is FFS if the UP shall be informed about the status of the SCG resources.

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 deactivation.

5. The SN-DU sends the UE CONTEXT SETUP RESPONSE message to the SN-CU, indicates that if the SN-DU accepts the SCG deactivation or not.

6. The SN sends the SN addition Request Acknowledge towards the MN, indicates that if the SN accepts the SCG deactivation or not.

#### 8.4.x.1a SN Addition with SCG Activation



**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.

2. The SN-CU-CP sends BEARER CONTEXT SETUP REQUEST message to the SN-CU-UP to setup bearer context and indicates that the SCG is to be activated.

Editor’s note: It is FFS if the UP shall be informed about the status of the SCG resources.

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.

5. The SN-DU sends the UE CONTEXT SETUP RESPONSE message to the SN-CU.

6. The SN sends the SN addition Request Acknowledge towards the MN.

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



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

1. SCG is activated.

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

3. The SN-CU-CP sends BEARER CONTEXT MODIFICATION REQUEST message to the SN-CU-UP, indicates that the SCG is to be deactivated.

Editor’s note: It is FFS if the UP shall be informed about the status of the SCG resources.

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 deactivation.

6. The SN-DU sends the UE CONTEXT MODIFICATION RESPONSE message to the SN-CU, indicates that the SCG is deactivated or not.

7. The SN sends the SN Modification Request Acknowledge towards the MN, indicates that the SCG is deactivated or not.

#### 8.4.x.3 MN initiated SN Modification with SCG Activation



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

1. SCG is deactivated.

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

3. The SN-CU-CP sends BEARER CONTEXT MODIFICATION REQUEST message to the SN-CU-UP, indicates that the SCG is to be activated.

Editor’s note: It is FFS if the UP shall be informed about the status of the SCG resources.

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.

6. The SN-DU sends the UE CONTEXT MODIFICATION RESPONSE message to the SN-CU, indicates that the SCG is activated.

7. The SN sends the SN Modification Request Acknowledge towards the MN, indicates that the SCG is activated.

#### 8.4.x.4 SN initiated SN Modification with SCG Deactivation



**Figure 8.4.x.4-1: SCG Deactivation in SN initiated SN Modification procedure**

1. SCG is activated.

2. The SN-CU-CP sends BEARER CONTEXT MODIFICATION REQUEST message to the SN-CU-UP, indicates that the SCG is to be deactivated.

Editor’s note: It is FFS if the UP shall be informed about the status of the SCG resources.

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 deactivation.

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

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#### 8.4.x.5 SN initiated SN Modification with SCG Activation



**Figure 8.4.x.5-1: SCG Activation in SN initiated SN Modification procedure**

1. SCG is deactivated.

2. The SN-CU-CP sends BEARER CONTEXT MODIFICATION REQUEST message to the SN-CU-UP, indicates that the SCG is to be activated.

Editor’s note: It is FFS if the UP shall be informed about the status of the SCG resources.

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.

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

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