**3GPP TSG-RAN WG3 Meeting #107-e R3-20xxxx**

**Electronic Meeting, February 24th – March 6th, 2020**

**Agenda item:** 13.3.2.1

**Source:** Qualcomm Incorporated

**Title:** CB: # 49\_Email049-IAB\_migration\_criteria

**Document for:** Agreement

# 1 Introduction

This document discusses:

|  |
| --- |
| **CB: # 49\_Email049-IAB\_migration\_criteria****- RLF recovery st2? (QC), (SS), (HW)****- any other aspects? (AT&T), (HW 0756), (KDDI)****- attempt agreement on “common denominator” st2 TP; merge/revise as needed; check details**(QC)Summary of offline disc [R3-201147](../../../../Users/ghampel/AppData/Local/Temp/Temp1_RAN3_107-e_agenda_with_Tdocs_20200221_1346.zip/Inbox/R3-201147.zip) |

**The following contributions have been considered:**

|  |  |  |
| --- | --- | --- |
| [R3-200571](../../../../Users/ghampel/AppData/Local/Temp/Temp1_RAN3_107-e_agenda_with_Tdocs_20200221_1346.zip/docs/R3-200571.zip) | (TP for NR-IAB BL CR for 38.401) IAB node reestablishment (Samsung) | other |
| [R3-200761](../../../../Users/ghampel/AppData/Local/Temp/Temp1_RAN3_107-e_agenda_with_Tdocs_20200221_1346.zip/docs/R3-200761.zip) | (TP for NR\_IAB BL CR for TS 38.401): Backhaul RLF Recovery (Huawei) | other |
| [R3-200418](../../../../Users/ghampel/AppData/Local/Temp/Temp1_RAN3_107-e_agenda_with_Tdocs_20200221_1346.zip/docs/R3-200418.zip) | (TP for NR\_IAB BL CR to TS 38.401) BH RLF recovery (Qualcomm Incorporated) | otherMove to 13.3.2.1 |
| [R3-200637](../../../../Users/ghampel/AppData/Local/Temp/Temp1_RAN3_107-e_agenda_with_Tdocs_20200221_1346.zip/docs/R3-200637.zip) | (TP for NR-IAB BL CR for TS 38.473): F1AP signaling to indicate IAB node congestion (AT&T) | discussionMove to 13.3.2.1 |
| [R3-200756](../../../../Users/ghampel/AppData/Local/Temp/Temp1_RAN3_107-e_agenda_with_Tdocs_20200221_1346.zip/docs/R3-200756.zip) | CP based E2E flow control for IAB (Huawei) | discussionMove to 13.3.2.1 |
| [R3-200319](../../../../Users/ghampel/AppData/Local/Temp/Temp1_RAN3_107-e_agenda_with_Tdocs_20200221_1346.zip/docs/R3-200319.zip) | Considerations on Intra-CU topology adaptation procedure (KDDI Corporation) | discussionMove to 13.3.2.1 |

**These contributions cover the following distinct topics:**

|  |  |
| --- | --- |
| [R3-200571](file:///C%3A%5Ctemporary%5CUsers%5Cghampel%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107-e_agenda_with_Tdocs_20200221_1346.zip%5Cdocs%5CR3-200571.zip), [R3-200761](file:///C%3A%5Ctemporary%5CUsers%5Cghampel%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107-e_agenda_with_Tdocs_20200221_1346.zip%5Cdocs%5CR3-200761.zip), [R3-200418](file:///C%3A%5Ctemporary%5CUsers%5Cghampel%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107-e_agenda_with_Tdocs_20200221_1346.zip%5Cdocs%5CR3-200418.zip) | **BH RLF recovery procedure** |
| [R3-200637](file:///C%3A%5Ctemporary%5CUsers%5Cghampel%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107-e_agenda_with_Tdocs_20200221_1346.zip%5Cdocs%5CR3-200637.zip), [R3-200756](file:///C%3A%5Ctemporary%5CUsers%5Cghampel%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107-e_agenda_with_Tdocs_20200221_1346.zip%5Cdocs%5CR3-200756.zip) | **F1AP congestion notification** |
| [R3-200319](file:///C%3A%5Ctemporary%5CUsers%5Cghampel%5CAppData%5CLocal%5CTemp%5CTemp1_RAN3_107-e_agenda_with_Tdocs_20200221_1346.zip%5Cdocs%5CR3-200319.zip) | **Intra-CU topology adaptation** |

**BH RLF recovery procedure**

The three contributions discuss intra-CU BH RLF recovery procedures for SA mode. R3-200418 also discusses inter-CU BH RLF recovery for SA mode as well as intra/inter-CU BH RLF recovery for NSA mode.

These contributions have been merged in the TP to IAB BL CR to TS 38.401 below.

The following issue has been identified:

**How does the IAB-node identify if a parent node selected for recovery belongs to the same or a different IAB-donor CU?**

**Option 1: The IAB-node is pre-configured with the local CU gNB-ID.**

**Option 2: The CU sends the gNB-ID to the IAB-node (e.g. via RRC).**

***Please provide your view on Option 1 vs. Option 2.***

***Please review the TP in section 4 and propose corrections/additions as necessary.***

**F1AP congestion reporting**

The two contributions propose that the IAB-node reports congestion-related information via F1-AP to the CU-CP. In this manner, the CU-CP can apply congestion alleviation measures such as changes to resource configuration or changes to topology and routing.

Both contributions propose leverage the GNB-DU STATUS INDICATION message for such congestion reporting. The discussion will therefore focus on extensions to this message only.

R3-200637 proposes that the IAB-node reports congestion in binary format (congested/non-congested) per DU. R3-200756 proposes reporting of congestion or link load with child link granularity.

Companies are invited to provide their view on the support of this feature. Rapporteur has enclosed the TP to BL CR 38.473 from R3-200637, which can serve as baseline.

***Please provide feedback on the following questions:***

***Q1: Should congestion reporting via F1AP GNB-DU STATUS INDICATION be supported in Rel-16 IAB?***

***Q2: If yes, with what granularity (e.g. per DU, per child link, etc).***

**Intra-CU topology adaptation procedure**

This topic is handed by email discussion **CB: # 50\_Email050-IAB\_migration\_same\_donor** and will not be addressed here.

# 3 Conclusion

TBD…

# 4 TP for IAB BL CR to TS 38401: RLF Recovery

START OF CHANGE

### 8.2.z Intra-CU Backhaul RLF recovery for IAB-node in SA mode

The intra-CU backhaul RLF recovery procedure for IAB-node in SA mode enables the IAB-node operating in SA mode to migrate to another parent node underneath the same IAB-donor CU, when it determines backhaul RLF. The determination of backhaul RLF is described in TS 38.300 [zz].

**Editor’s NOTE: FFS how the IAB-node determines that the parent-node selected for recovery is connected to the same donor.**

Figure 8.2.v-1 shows an example of the BH RLF recovery procedure for an IAB-node in SA mode. In this example, the recovering IAB-node changes from its initial parent node to a recovery parent node, and the recovery parent node uses a different IAB-donor DU than the initial parent node.



**Figure 8.2.z: IAB intra-CU backhaul RLF recovery procedure for IAB-node in SA mode**

1. The IAB-node MT determines BH RLF as described in TS 38.300 [zz], clause [9.2.7].
2. The recovering IAB-node MT conducts the RRC re-establishment procedure at the recovery parent node as defined in clause 8.7. In this procedure, the IAB-donor CU may include new TNL address(es), which are anchored at the recovery-path IAB-donor DU.

3. The remaining part of the procedure follow steps 11-15 of the intra-CU topology adaptation procedure as defined in clause 8.2.x.

Descendant nodes of the recovering IAB-node may also have to switch to new TNL address(es) that is (are) anchored at the target-path IAB-donor DU. This procedure is the same as described for IAB inter-CU topology adaptation procedure [clause 8.2.x].

### 8.2.z+1 Inter-CU Backhaul RLF recovery for IAB-node in SA mode

If the IAB-node operating in SA mode determines BH RLF, and recovery at a parent node underneath the same IAB-donor CU is not possible or fails, the IAB-node MT enters idle mode. From idle mode, the IAB-node follows the IAB network integration procedure.

### 8.2.z+2 Backhaul RLF recovery for IAB-node in NSA mode

The IAB-node operating in NSA mode retains NR RRC connectivity with the IAB-donor CU via the MN even if the link to the parent node deteriorates. The IAB-node can therefore send SN measurement reports to the IAB-donor CU via the MN, and the IAB-donor CU can initiate the intra-CU topology adaptation procedure using NR RRC via the MN to migrate the IAB-node to a new parent node.

If the IAB-node MT determines SCG RLF, it reports SCG Failure Information to the MN and follows procedures for UEs as described in TS 37.340 [zz]. The MN may establish a new IAB-donor CU using the IAB network integration procedure for NSA [clause 8.2.x]

END OF CHANGE

# 5 TP for IAB BL CR to TS 38.473: on F1AP Congestion Indication

------------------------------------------------------------- CHANGE 1 -------------------------------------------------------------

8.2.7 gNB-DU Status Indication

8.2.7.1 General

The purpose of the gNB-DU Status Indication procedure is informing the gNB-CU that the gNB-DU is overloaded so that overload reduction actions can be applied. The procedure uses non-UE associated signalling.

8.2.7.2 Successful Operation

****

**Figure 8.2.7.2-1: gNB-DU Status Indication procedure**

If the *gNB-DU* *Overload Information* IE in the GNB-DU STATUS INDICATION message indicates that the gNB-DU is overloaded, the gNB-CU shall apply overload reduction actions until informed, with a new GNB-DU STATUS INDICATION message, that the overload situation has ceased.

The detailed overload reduction policy is up to gNB-CU implementation.

In case of an IAB node, if the *gNB-DU* *Congestion Information* IE in the GNB-DU STATUS INDICATION message indicates that the IAB node is congested, the IAB-donor-CU may apply congestion mitigation actions, such as topology changes or route reconfigurations, until informed, with a new GNB-DU STATUS INDICATION message, that the overload situation has ceased.

The detailed congestion mitigation policy is up to IAB-donor-CU implementation.

############################## UNCHANGED PARTS SKIPPED #################################

------------------------------------------------------------- CHANGE 2 -------------------------------------------------------------

9.2.1.15 GNB-DU STATUS INDICATION

This message is sent by the gNB-DU to indicate to the gNB-CU its status of overload.

Direction: gNB-DU → gNB-CU

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IE/Group Name** | **Presence** | **Range** | **IE type and reference** | **Semantics description** | **Criticality** | **Assigned Criticality** |
| Message Type | M |  | 9.3.1.1 |  | YES | ignore |
| Transaction ID | M |  | 9.3.1.23 |  | YES | reject |
| gNB-DU Overload Information | M |  | ENUMERATED (overloaded, not-overloaded) |  | YES | reject |
| gNB-DU Congestion Information | O |  | ENUMERATED (congested, not-congested) |  | YES | reject |

############################## UNCHANGED PARTS SKIPPED #################################

------------------------------------------------------------- CHANGE 3 -------------------------------------------------------------

9.4.4 PDU Definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- PDU definitions for F1AP.

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

F1AP-PDU-Contents {

itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)

ngran-access (22) modules (3) f1ap (3) version1 (1) f1ap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- IE parameter types from other modules.

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

IMPORTS

 Candidate-SpCell-Item,

 Cause,

 Cells-Failed-to-be-Activated-List-Item,

 Cells-Status-Item,

 Cells-to-be-Activated-List-Item,

 Cells-to-be-Deactivated-List-Item,

 CellULConfigured,

 CriticalityDiagnostics,

 C-RNTI,

 CUtoDURRCInformation,

 DRB-Activity-Item,

 DRBID,

 DRBs-FailedToBeModified-Item,

 DRBs-FailedToBeSetup-Item,

 DRBs-FailedToBeSetupMod-Item,

 DRB-Notify-Item,

 DRBs-ModifiedConf-Item,

 DRBs-Modified-Item,

 DRBs-Required-ToBeModified-Item,

 DRBs-Required-ToBeReleased-Item,

 DRBs-Setup-Item,

 DRBs-SetupMod-Item,

 DRBs-ToBeModified-Item,

 DRBs-ToBeReleased-Item,

 DRBs-ToBeSetup-Item,

 DRBs-ToBeSetupMod-Item,

 DRXCycle,

 DRXConfigurationIndicator,

 DUtoCURRCInformation,

 EUTRANQoS,

 ExecuteDuplication,

 FullConfiguration,

 GNB-CU-UE-F1AP-ID,

 GNB-DU-UE-F1AP-ID,

 GNB-DU-ID,

 GNB-DU-Served-Cells-Item,

 GNB-DU-System-Information,

 GNB-CU-Name,

 GNB-DU-Name,

 InactivityMonitoringRequest,

 InactivityMonitoringResponse,

 LowerLayerPresenceStatusChange,

 NotificationControl,

 NRCGI,

 NRPCI,

 UEContextNotRetrievable,

 Potential-SpCell-Item,

 RAT-FrequencyPriorityInformation,

 ResourceCoordinationTransferContainer,

 RRCContainer,

 RRCContainer-RRCSetupComplete,

 RRCReconfigurationCompleteIndicator,

 SCellIndex,

 SCell-ToBeRemoved-Item,

 SCell-ToBeSetup-Item,

 SCell-ToBeSetupMod-Item,

 SCell-FailedtoSetup-Item,

 SCell-FailedtoSetupMod-Item,

 ServCellIndex,

 Served-Cell-Information,

 Served-Cells-To-Add-Item,

 Served-Cells-To-Delete-Item,

 Served-Cells-To-Modify-Item,

 ServingCellMO,

 SRBID,

 SRBs-FailedToBeSetup-Item,

 SRBs-FailedToBeSetupMod-Item,

 SRBs-Required-ToBeReleased-Item,

 SRBs-ToBeReleased-Item,

 SRBs-ToBeSetup-Item,

 SRBs-ToBeSetupMod-Item,

 SRBs-Modified-Item,

 SRBs-Setup-Item,

 SRBs-SetupMod-Item,

 TimeToWait,

 TransactionID,

 TransmissionActionIndicator,

 UE-associatedLogicalF1-ConnectionItem,

 DUtoCURRCContainer,

 PagingCell-Item,

 SItype-List,

 UEIdentityIndexValue,

 GNB-CU-TNL-Association-Setup-Item,

 GNB-CU-TNL-Association-Failed-To-Setup-Item,

 GNB-CU-TNL-Association-To-Add-Item,

 GNB-CU-TNL-Association-To-Remove-Item,

 GNB-CU-TNL-Association-To-Update-Item,

 MaskedIMEISV,

 PagingDRX,

 PagingPriority,

 PagingIdentity,

 Cells-to-be-Barred-Item,

 PWSSystemInformation,

 Broadcast-To-Be-Cancelled-Item,

 Cells-Broadcast-Cancelled-Item,

 NR-CGI-List-For-Restart-Item,

 PWS-Failed-NR-CGI-Item,

 RepetitionPeriod,

 NumberofBroadcastRequest,

 Cells-To-Be-Broadcast-Item,

 Cells-Broadcast-Completed-Item,

 Cancel-all-Warning-Messages-Indicator,

 EUTRA-NR-CellResourceCoordinationReq-Container,

 EUTRA-NR-CellResourceCoordinationReqAck-Container,

 RequestType,

 PLMN-Identity,

 RLCFailureIndication,

 UplinkTxDirectCurrentListInformation,

 SULAccessIndication,

 Protected-EUTRA-Resources-Item,

 GNB-DUConfigurationQuery,

 BitRate,

 RRC-Version,

 GNBDUOverloadInformation,

 RRCDeliveryStatusRequest,

 NeedforGap,

 RRCDeliveryStatus,

 ResourceCoordinationTransferInformation,

 Dedicated-SIDelivery-NeededUE-Item,

 Associated-SCell-Item,

 IgnoreResourceCoordinationContainer,

 PagingOrigin,

 UAC-Assistance-Info,

 RANUEID,

 GNB-DU-TNL-Association-To-Remove-Item,

 NotificationInformation,

 TraceActivation,

 TraceID,

 Neighbour-Cell-Information-Item,

 SymbolAllocInSlot,

 Slot-Configuration-Item,

 NumDLULSymbols,

 AdditionalRRMPriorityIndex,

 DUCURadioInformationType,

 CUDURadioInformationType,

 Transport-Layer-Addresses-Info,

 GNBDUCongestionInformation

FROM F1AP-IEs

 PrivateIE-Container{},

 ProtocolExtensionContainer{},

 ProtocolIE-Container{},

 ProtocolIE-ContainerPair{},

 ProtocolIE-SingleContainer{},

 F1AP-PRIVATE-IES,

 F1AP-PROTOCOL-EXTENSION,

 F1AP-PROTOCOL-IES,

 F1AP-PROTOCOL-IES-PAIR

FROM F1AP-Containers

 id-Candidate-SpCell-Item,

 id-Candidate-SpCell-List,

 id-Cause,

 id-Cancel-all-Warning-Messages-Indicator,

 id-Cells-Failed-to-be-Activated-List,

 id-Cells-Failed-to-be-Activated-List-Item,

 id-Cells-Status-Item,

 id-Cells-Status-List,

 id-Cells-to-be-Activated-List,

 id-Cells-to-be-Activated-List-Item,

 id-Cells-to-be-Deactivated-List,

 id-Cells-to-be-Deactivated-List-Item,

 id-ConfirmedUEID,

 id-CriticalityDiagnostics,

 id-C-RNTI,

 id-CUtoDURRCInformation,

 id-DRB-Activity-Item,

 id-DRB-Activity-List,

 id-DRBs-FailedToBeModified-Item,

 id-DRBs-FailedToBeModified-List,

 id-DRBs-FailedToBeSetup-Item,

 id-DRBs-FailedToBeSetup-List,

 id-DRBs-FailedToBeSetupMod-Item,

 id-DRBs-FailedToBeSetupMod-List,

 id-DRBs-ModifiedConf-Item,

 id-DRBs-ModifiedConf-List,

 id-DRBs-Modified-Item,

 id-DRBs-Modified-List,

 id-DRB-Notify-Item,

 id-DRB-Notify-List,

 id-DRBs-Required-ToBeModified-Item,

 id-DRBs-Required-ToBeModified-List,

 id-DRBs-Required-ToBeReleased-Item,

 id-DRBs-Required-ToBeReleased-List,

 id-DRBs-Setup-Item,

 id-DRBs-Setup-List,

 id-DRBs-SetupMod-Item,

 id-DRBs-SetupMod-List,

 id-DRBs-ToBeModified-Item,

 id-DRBs-ToBeModified-List,

 id-DRBs-ToBeReleased-Item,

 id-DRBs-ToBeReleased-List,

 id-DRBs-ToBeSetup-Item,

 id-DRBs-ToBeSetup-List,

 id-DRBs-ToBeSetupMod-Item,

 id-DRBs-ToBeSetupMod-List,

 id-DRXCycle,

 id-DUtoCURRCInformation,

 id-ExecuteDuplication,

 id-FullConfiguration,

 id-gNB-CU-UE-F1AP-ID,

 id-gNB-DU-UE-F1AP-ID,

 id-gNB-DU-ID,

 id-GNB-DU-Served-Cells-Item,

 id-gNB-DU-Served-Cells-List,

 id-gNB-CU-Name,

 id-gNB-DU-Name,

 id-InactivityMonitoringRequest,

 id-InactivityMonitoringResponse,

 id-new-gNB-CU-UE-F1AP-ID,

 id-new-gNB-DU-UE-F1AP-ID,

 id-oldgNB-DU-UE-F1AP-ID,

 id-PLMNAssistanceInfoForNetShar,

 id-Potential-SpCell-Item,

 id-Potential-SpCell-List,

 id-RAT-FrequencyPriorityInformation,

 id-RedirectedRRCmessage,

 id-ResetType,

 id-ResourceCoordinationTransferContainer,

 id-RRCContainer,

 id-RRCContainer-RRCSetupComplete,

 id-RRCReconfigurationCompleteIndicator,

 id-SCell-FailedtoSetup-List,

 id-SCell-FailedtoSetup-Item,

 id-SCell-FailedtoSetupMod-List,

 id-SCell-FailedtoSetupMod-Item,

 id-SCell-ToBeRemoved-Item,

 id-SCell-ToBeRemoved-List,

 id-SCell-ToBeSetup-Item,

 id-SCell-ToBeSetup-List,

 id-SCell-ToBeSetupMod-Item,

 id-SCell-ToBeSetupMod-List,

 id-SelectedPLMNID,

 id-Served-Cells-To-Add-Item,

 id-Served-Cells-To-Add-List,

 id-Served-Cells-To-Delete-Item,

 id-Served-Cells-To-Delete-List,

 id-Served-Cells-To-Modify-Item,

 id-Served-Cells-To-Modify-List,

 id-ServCellIndex,

 id-ServingCellMO,

 id-SpCell-ID,

 id-SpCellULConfigured,

 id-SRBID,

 id-SRBs-FailedToBeSetup-Item,

 id-SRBs-FailedToBeSetup-List,

 id-SRBs-FailedToBeSetupMod-Item,

 id-SRBs-FailedToBeSetupMod-List,

 id-SRBs-Required-ToBeReleased-Item,

 id-SRBs-Required-ToBeReleased-List,

 id-SRBs-ToBeReleased-Item,

 id-SRBs-ToBeReleased-List,

 id-SRBs-ToBeSetup-Item,

 id-SRBs-ToBeSetup-List,

 id-SRBs-ToBeSetupMod-Item,

 id-SRBs-ToBeSetupMod-List,

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 id-SRBs-Modified-List,

 id-SRBs-Setup-Item,

 id-SRBs-Setup-List,

 id-SRBs-SetupMod-Item,

 id-SRBs-SetupMod-List,

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 id-TransactionID,

 id-TransmissionActionIndicator,

 id-UEContextNotRetrievable,

 id-UE-associatedLogicalF1-ConnectionItem,

 id-UE-associatedLogicalF1-ConnectionListResAck,

 id-DUtoCURRCContainer,

 id-NRCGI,

 id-PagingCell-Item,

 id-PagingCell-List,

 id-PagingDRX,

 id-PagingPriority,

 id-SItype-List,

 id-UEIdentityIndexValue,

 id-GNB-CU-TNL-Association-Setup-List,

 id-GNB-CU-TNL-Association-Setup-Item,

 id-GNB-CU-TNL-Association-Failed-To-Setup-List,

 id-GNB-CU-TNL-Association-Failed-To-Setup-Item,

 id-GNB-CU-TNL-Association-To-Add-Item,

 id-GNB-CU-TNL-Association-To-Add-List,

 id-GNB-CU-TNL-Association-To-Remove-Item,

 id-GNB-CU-TNL-Association-To-Remove-List,

 id-GNB-CU-TNL-Association-To-Update-Item,

 id-GNB-CU-TNL-Association-To-Update-List,

 id-MaskedIMEISV,

 id-PagingIdentity,

 id-Cells-to-be-Barred-List,

 id-Cells-to-be-Barred-Item,

 id-PWSSystemInformation,

 id-RepetitionPeriod,

 id-NumberofBroadcastRequest,

 id-Cells-To-Be-Broadcast-List,

 id-Cells-To-Be-Broadcast-Item,

 id-Cells-Broadcast-Completed-List,

 id-Cells-Broadcast-Completed-Item,

 id-Broadcast-To-Be-Cancelled-List,

 id-Broadcast-To-Be-Cancelled-Item,

 id-Cells-Broadcast-Cancelled-List,

 id-Cells-Broadcast-Cancelled-Item,

 id-NR-CGI-List-For-Restart-List,

 id-NR-CGI-List-For-Restart-Item,

 id-PWS-Failed-NR-CGI-List,

 id-PWS-Failed-NR-CGI-Item,

 id-EUTRA-NR-CellResourceCoordinationReq-Container,

 id-EUTRA-NR-CellResourceCoordinationReqAck-Container,

 id-Protected-EUTRA-Resources-List,

 id-RequestType,

 id-ServingPLMN,

 id-DRXConfigurationIndicator,

 id-RLCFailureIndication,

 id-UplinkTxDirectCurrentListInformation,

 id-SULAccessIndication,

 id-Protected-EUTRA-Resources-Item,

 id-GNB-DUConfigurationQuery,

 id-GNB-DU-UE-AMBR-UL,

 id-GNB-CU-RRC-Version,

 id-GNB-DU-RRC-Version,

 id-GNBDUOverloadInformation,

 id-NeedforGap,

 id-RRCDeliveryStatusRequest,

 id-RRCDeliveryStatus,

 id-Dedicated-SIDelivery-NeededUE-List,

 id-Dedicated-SIDelivery-NeededUE-Item,

 id-ResourceCoordinationTransferInformation,

 id-Associated-SCell-List,

 id-Associated-SCell-Item,

 id-IgnoreResourceCoordinationContainer,

 id-UAC-Assistance-Info,

 id-RANUEID,

 id-PagingOrigin,

 id-GNB-DU-TNL-Association-To-Remove-Item,

 id-GNB-DU-TNL-Association-To-Remove-List,

 id-NotificationInformation,

 id-TraceActivation,

 id-TraceID,

 id-Neighbour-Cell-Information-List,

 id-Neighbour-Cell-Information-Item,

 id-Slot-Configuration-Item,

 id-SymbolAllocInSlot,

 id-NumDLULSymbols,

 id-AdditionalRRMPriorityIndex,

 id-DUCURadioInformationType,

 id-CUDURadioInformationType,

 id-LowerLayerPresenceStatusChange,

 id-Transport-Layer-Addresses-Info,

 id-GNBDUCongestionInformation,

 maxCellingNBDU,

 maxnoofCandidateSpCells,

 maxnoofDRBs,

 maxnoofErrors,

 maxnoofIndividualF1ConnectionsToReset,

 maxnoofPotentialSpCells,

 maxnoofSCells,

 maxnoofSRBs,

 maxnoofPagingCells,

 maxnoofTNLAssociations,

 maxCellineNB,

 maxnoofUEIDs,

 maxnoofslots

############################## UNCHANGED PARTS SKIPPED #################################

------------------------------------------------------------- CHANGE 4 -------------------------------------------------------------

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- gNB-DU STATUS INDICATION ELEMENTARY PROCEDURE

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- gNB-DU Status Indication

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

GNBDUStatusIndication ::= SEQUENCE {

 protocolIEs ProtocolIE-Container { {GNBDUStatusIndicationIEs} },

 ...

}

GNBDUStatusIndicationIEs F1AP-PROTOCOL-IES ::= {

 { ID id-TransactionID CRITICALITY reject TYPE TransactionID PRESENCE mandatory }|

 { ID id-GNBDUOverloadInformation CRITICALITY reject TYPE GNBDUOverloadInformation PRESENCE mandatory },

 { ID id-GNBDUCongestionInformation CRITICALITY reject TYPE GNBDUCongestionInformation PRESENCE optional },

 ...

}

############################## UNCHANGED PARTS SKIPPED #################################

------------------------------------------------------------- CHANGE 5 -------------------------------------------------------------

9.4.5 Information Element Definitions

############################## UNCHANGED PARTS SKIPPED #################################

GNB-DUConfigurationQuery ::= ENUMERATED {true, ...}

GNBDUOverloadInformation ::= ENUMERATED {overloaded, not-overloaded}

GNBDUCongestionInformation ::= ENUMERATED {congested, not-congested}

GNB-DU-TNL-Association-To-Remove-Item::= SEQUENCE {

 tNLAssociationTransportLayerAddress CP-TransportLayerAddress ,

 tNLAssociationTransportLayerAddressgNBCU CP-TransportLayerAddress OPTIONAL,

 iE-Extensions ProtocolExtensionContainer { { GNB-DU-TNL-Association-To-Remove-Item-ExtIEs} } OPTIONAL

}

############################## UNCHANGED PARTS SKIPPED #################################

------------------------------------------------------------- CHANGE 6 -------------------------------------------------------------

9.4.7 Constant Definitions

############################## UNCHANGED PARTS SKIPPED #################################

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- IEs

--

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

id-Cause ProtocolIE-ID ::= 0

id-Cells-Failed-to-be-Activated-List ProtocolIE-ID ::= 1

id-Cells-Failed-to-be-Activated-List-Item ProtocolIE-ID ::= 2

id-Cells-to-be-Activated-List ProtocolIE-ID ::= 3

id-Cells-to-be-Activated-List-Item ProtocolIE-ID ::= 4

id-Cells-to-be-Deactivated-List ProtocolIE-ID ::= 5

id-Cells-to-be-Deactivated-List-Item ProtocolIE-ID ::= 6

id-CriticalityDiagnostics ProtocolIE-ID ::= 7

id-CUtoDURRCInformation ProtocolIE-ID ::= 9

id-DRBs-FailedToBeModified-Item ProtocolIE-ID ::= 12

id-DRBs-FailedToBeModified-List ProtocolIE-ID ::= 13

id-DRBs-FailedToBeSetup-Item ProtocolIE-ID ::= 14

id-DRBs-FailedToBeSetup-List ProtocolIE-ID ::= 15

id-DRBs-FailedToBeSetupMod-Item ProtocolIE-ID ::= 16

id-DRBs-FailedToBeSetupMod-List ProtocolIE-ID ::= 17

id-DRBs-ModifiedConf-Item ProtocolIE-ID ::= 18

id-DRBs-ModifiedConf-List ProtocolIE-ID ::= 19

id-DRBs-Modified-Item ProtocolIE-ID ::= 20

id-DRBs-Modified-List ProtocolIE-ID ::= 21

id-DRBs-Required-ToBeModified-Item ProtocolIE-ID ::= 22

id-DRBs-Required-ToBeModified-List ProtocolIE-ID ::= 23

id-DRBs-Required-ToBeReleased-Item ProtocolIE-ID ::= 24

id-DRBs-Required-ToBeReleased-List ProtocolIE-ID ::= 25

id-DRBs-Setup-Item ProtocolIE-ID ::= 26

id-DRBs-Setup-List ProtocolIE-ID ::= 27

id-DRBs-SetupMod-Item ProtocolIE-ID ::= 28

id-DRBs-SetupMod-List ProtocolIE-ID ::= 29

id-DRBs-ToBeModified-Item ProtocolIE-ID ::= 30

id-DRBs-ToBeModified-List ProtocolIE-ID ::= 31

id-DRBs-ToBeReleased-Item ProtocolIE-ID ::= 32

id-DRBs-ToBeReleased-List ProtocolIE-ID ::= 33

id-DRBs-ToBeSetup-Item ProtocolIE-ID ::= 34

id-DRBs-ToBeSetup-List ProtocolIE-ID ::= 35

id-DRBs-ToBeSetupMod-Item ProtocolIE-ID ::= 36

id-DRBs-ToBeSetupMod-List ProtocolIE-ID ::= 37

id-DRXCycle ProtocolIE-ID ::= 38

id-DUtoCURRCInformation ProtocolIE-ID ::= 39

id-gNB-CU-UE-F1AP-ID ProtocolIE-ID ::= 40

id-gNB-DU-UE-F1AP-ID ProtocolIE-ID ::= 41

id-gNB-DU-ID ProtocolIE-ID ::= 42

id-GNB-DU-Served-Cells-Item ProtocolIE-ID ::= 43

id-gNB-DU-Served-Cells-List ProtocolIE-ID ::= 44

id-gNB-DU-Name ProtocolIE-ID ::= 45

id-NRCellID ProtocolIE-ID ::= 46

id-oldgNB-DU-UE-F1AP-ID ProtocolIE-ID ::= 47

id-ResetType ProtocolIE-ID ::= 48

id-ResourceCoordinationTransferContainer ProtocolIE-ID ::= 49

id-RRCContainer ProtocolIE-ID ::= 50

id-SCell-ToBeRemoved-Item ProtocolIE-ID ::= 51

id-SCell-ToBeRemoved-List ProtocolIE-ID ::= 52

id-SCell-ToBeSetup-Item ProtocolIE-ID ::= 53

id-SCell-ToBeSetup-List ProtocolIE-ID ::= 54

id-SCell-ToBeSetupMod-Item ProtocolIE-ID ::= 55

id-SCell-ToBeSetupMod-List ProtocolIE-ID ::= 56

id-Served-Cells-To-Add-Item ProtocolIE-ID ::= 57

id-Served-Cells-To-Add-List ProtocolIE-ID ::= 58

id-Served-Cells-To-Delete-Item ProtocolIE-ID ::= 59

id-Served-Cells-To-Delete-List ProtocolIE-ID ::= 60

id-Served-Cells-To-Modify-Item ProtocolIE-ID ::= 61

id-Served-Cells-To-Modify-List ProtocolIE-ID ::= 62

id-SpCell-ID ProtocolIE-ID ::= 63

id-SRBID ProtocolIE-ID ::= 64

id-SRBs-FailedToBeSetup-Item ProtocolIE-ID ::= 65

id-SRBs-FailedToBeSetup-List ProtocolIE-ID ::= 66

id-SRBs-FailedToBeSetupMod-Item ProtocolIE-ID ::= 67

id-SRBs-FailedToBeSetupMod-List ProtocolIE-ID ::= 68

id-SRBs-Required-ToBeReleased-Item ProtocolIE-ID ::= 69

id-SRBs-Required-ToBeReleased-List ProtocolIE-ID ::= 70

id-SRBs-ToBeReleased-Item ProtocolIE-ID ::= 71

id-SRBs-ToBeReleased-List ProtocolIE-ID ::= 72

id-SRBs-ToBeSetup-Item ProtocolIE-ID ::= 73

id-SRBs-ToBeSetup-List ProtocolIE-ID ::= 74

id-SRBs-ToBeSetupMod-Item ProtocolIE-ID ::= 75

id-SRBs-ToBeSetupMod-List ProtocolIE-ID ::= 76

id-TimeToWait ProtocolIE-ID ::= 77

id-TransactionID ProtocolIE-ID ::= 78

id-TransmissionActionIndicator ProtocolIE-ID ::= 79

id-UE-associatedLogicalF1-ConnectionItem ProtocolIE-ID ::= 80

id-UE-associatedLogicalF1-ConnectionListResAck ProtocolIE-ID ::= 81

id-gNB-CU-Name ProtocolIE-ID ::= 82

id-SCell-FailedtoSetup-List ProtocolIE-ID ::= 83

id-SCell-FailedtoSetup-Item ProtocolIE-ID ::= 84

id-SCell-FailedtoSetupMod-List ProtocolIE-ID ::= 85

id-SCell-FailedtoSetupMod-Item ProtocolIE-ID ::= 86

id-RRCReconfigurationCompleteIndicator ProtocolIE-ID ::= 87

id-Cells-Status-Item ProtocolIE-ID ::= 88

id-Cells-Status-List ProtocolIE-ID ::= 89

id-Candidate-SpCell-List ProtocolIE-ID ::= 90

id-Candidate-SpCell-Item ProtocolIE-ID ::= 91

id-Potential-SpCell-List ProtocolIE-ID ::= 92

id-Potential-SpCell-Item ProtocolIE-ID ::= 93

id-FullConfiguration ProtocolIE-ID ::= 94

id-C-RNTI ProtocolIE-ID ::= 95

id-SpCellULConfigured ProtocolIE-ID ::= 96

id-InactivityMonitoringRequest ProtocolIE-ID ::= 97

id-InactivityMonitoringResponse ProtocolIE-ID ::= 98

id-DRB-Activity-Item ProtocolIE-ID ::= 99

id-DRB-Activity-List ProtocolIE-ID ::= 100

id-EUTRA-NR-CellResourceCoordinationReq-Container ProtocolIE-ID ::= 101

id-EUTRA-NR-CellResourceCoordinationReqAck-Container ProtocolIE-ID ::= 102

id-Protected-EUTRA-Resources-List ProtocolIE-ID ::= 105

id-RequestType ProtocolIE-ID ::= 106

id-ServCellIndex ProtocolIE-ID ::= 107

id-RAT-FrequencyPriorityInformation ProtocolIE-ID ::= 108

id-ExecuteDuplication ProtocolIE-ID ::= 109

id-NRCGI ProtocolIE-ID ::= 111

id-PagingCell-Item ProtocolIE-ID ::= 112

id-PagingCell-List ProtocolIE-ID ::= 113

id-PagingDRX ProtocolIE-ID ::= 114

id-PagingPriority ProtocolIE-ID ::= 115

id-SItype-List ProtocolIE-ID ::= 116

id-UEIdentityIndexValue ProtocolIE-ID ::= 117

id-gNB-CUSystemInformation ProtocolIE-ID ::= 118

id-HandoverPreparationInformation ProtocolIE-ID ::= 119

id-GNB-CU-TNL-Association-To-Add-Item ProtocolIE-ID ::= 120

id-GNB-CU-TNL-Association-To-Add-List ProtocolIE-ID ::= 121

id-GNB-CU-TNL-Association-To-Remove-Item ProtocolIE-ID ::= 122

id-GNB-CU-TNL-Association-To-Remove-List ProtocolIE-ID ::= 123

id-GNB-CU-TNL-Association-To-Update-Item ProtocolIE-ID ::= 124

id-GNB-CU-TNL-Association-To-Update-List ProtocolIE-ID ::= 125

id-MaskedIMEISV ProtocolIE-ID ::= 126

id-PagingIdentity ProtocolIE-ID ::= 127

id-DUtoCURRCContainer ProtocolIE-ID ::= 128

id-Cells-to-be-Barred-List ProtocolIE-ID ::= 129

id-Cells-to-be-Barred-Item ProtocolIE-ID ::= 130

id-TAISliceSupportList ProtocolIE-ID ::= 131

id-GNB-CU-TNL-Association-Setup-List ProtocolIE-ID ::= 132

id-GNB-CU-TNL-Association-Setup-Item ProtocolIE-ID ::= 133

id-GNB-CU-TNL-Association-Failed-To-Setup-List ProtocolIE-ID ::= 134

id-GNB-CU-TNL-Association-Failed-To-Setup-Item ProtocolIE-ID ::= 135

id-DRB-Notify-Item ProtocolIE-ID ::= 136

id-DRB-Notify-List ProtocolIE-ID ::= 137

id-NotficationControl ProtocolIE-ID ::= 138

id-RANAC ProtocolIE-ID ::= 139

id-PWSSystemInformation ProtocolIE-ID ::= 140

id-RepetitionPeriod ProtocolIE-ID ::= 141

id-NumberofBroadcastRequest ProtocolIE-ID ::= 142

id-Cells-To-Be-Broadcast-List ProtocolIE-ID ::= 144

id-Cells-To-Be-Broadcast-Item ProtocolIE-ID ::= 145

id-Cells-Broadcast-Completed-List ProtocolIE-ID ::= 146

id-Cells-Broadcast-Completed-Item ProtocolIE-ID ::= 147

id-Broadcast-To-Be-Cancelled-List ProtocolIE-ID ::= 148

id-Broadcast-To-Be-Cancelled-Item ProtocolIE-ID ::= 149

id-Cells-Broadcast-Cancelled-List ProtocolIE-ID ::= 150

id-Cells-Broadcast-Cancelled-Item ProtocolIE-ID ::= 151

id-NR-CGI-List-For-Restart-List ProtocolIE-ID ::= 152

id-NR-CGI-List-For-Restart-Item ProtocolIE-ID ::= 153

id-PWS-Failed-NR-CGI-List ProtocolIE-ID ::= 154

id-PWS-Failed-NR-CGI-Item ProtocolIE-ID ::= 155

id-ConfirmedUEID ProtocolIE-ID ::= 156

id-Cancel-all-Warning-Messages-Indicator ProtocolIE-ID ::= 157

id-GNB-DU-UE-AMBR-UL ProtocolIE-ID ::= 158

id-DRXConfigurationIndicator ProtocolIE-ID ::= 159

id-RLC-Status ProtocolIE-ID ::= 160

id-DLPDCPSNLength ProtocolIE-ID ::= 161

id-GNB-DUConfigurationQuery ProtocolIE-ID ::= 162

id-MeasurementTimingConfiguration ProtocolIE-ID ::= 163

id-DRB-Information ProtocolIE-ID ::= 164

id-ServingPLMN ProtocolIE-ID ::= 165

id-Protected-EUTRA-Resources-Item ProtocolIE-ID ::= 168

id-GNB-CU-RRC-Version ProtocolIE-ID ::= 170

id-GNB-DU-RRC-Version ProtocolIE-ID ::= 171

id-GNBDUOverloadInformation ProtocolIE-ID ::= 172

id-CellGroupConfig ProtocolIE-ID ::= 173

id-RLCFailureIndication ProtocolIE-ID ::= 174

id-UplinkTxDirectCurrentListInformation ProtocolIE-ID ::= 175

id-DC-Based-Duplication-Configured ProtocolIE-ID ::= 176

id-DC-Based-Duplication-Activation ProtocolIE-ID ::= 177

id-SULAccessIndication ProtocolIE-ID ::= 178

id-AvailablePLMNList ProtocolIE-ID ::= 179

id-PDUSessionID ProtocolIE-ID ::= 180

id-ULPDUSessionAggregateMaximumBitRate ProtocolIE-ID ::= 181

id-ServingCellMO ProtocolIE-ID ::= 182

id-QoSFlowMappingIndication ProtocolIE-ID ::= 183

id-RRCDeliveryStatusRequest ProtocolIE-ID ::= 184

id-RRCDeliveryStatus ProtocolIE-ID ::= 185

id-BearerTypeChange ProtocolIE-ID ::= 186

id-RLCMode ProtocolIE-ID ::= 187

id-Duplication-Activation ProtocolIE-ID ::= 188

id-Dedicated-SIDelivery-NeededUE-List ProtocolIE-ID ::= 189

id-Dedicated-SIDelivery-NeededUE-Item ProtocolIE-ID ::= 190

id-DRX-LongCycleStartOffset ProtocolIE-ID ::= 191

id-ULPDCPSNLength ProtocolIE-ID ::= 192

id-SelectedBandCombinationIndex ProtocolIE-ID ::= 193

id-SelectedFeatureSetEntryIndex ProtocolIE-ID ::= 194

id-ResourceCoordinationTransferInformation ProtocolIE-ID ::= 195

id-ExtendedServedPLMNs-List ProtocolIE-ID ::= 196

id-ExtendedAvailablePLMN-List ProtocolIE-ID ::= 197

id-Associated-SCell-List ProtocolIE-ID ::= 198

id-latest-RRC-Version-Enhanced ProtocolIE-ID ::= 199

id-Associated-SCell-Item ProtocolIE-ID ::= 200

id-Cell-Direction ProtocolIE-ID ::= 201

id-SRBs-Setup-List ProtocolIE-ID ::= 202

id-SRBs-Setup-Item ProtocolIE-ID ::= 203

id-SRBs-SetupMod-List ProtocolIE-ID ::= 204

id-SRBs-SetupMod-Item ProtocolIE-ID ::= 205

id-SRBs-Modified-List ProtocolIE-ID ::= 206

id-SRBs-Modified-Item ProtocolIE-ID ::= 207

id-Ph-InfoSCG ProtocolIE-ID ::= 208

id-RequestedBandCombinationIndex ProtocolIE-ID ::= 209

id-RequestedFeatureSetEntryIndex ProtocolIE-ID ::= 210

id-RequestedP-MaxFR2 ProtocolIE-ID ::= 211

id-DRX-Config ProtocolIE-ID ::= 212

id-IgnoreResourceCoordinationContainer ProtocolIE-ID ::= 213

id-UEAssistanceInformation ProtocolIE-ID ::= 214

id-NeedforGap ProtocolIE-ID ::= 215

id-PagingOrigin ProtocolIE-ID ::= 216

id-new-gNB-CU-UE-F1AP-ID ProtocolIE-ID ::= 217

id-RedirectedRRCmessage ProtocolIE-ID ::= 218

id-new-gNB-DU-UE-F1AP-ID ProtocolIE-ID ::= 219

id-NotificationInformation ProtocolIE-ID ::= 220

id-PLMNAssistanceInfoForNetShar ProtocolIE-ID ::= 221

id-UEContextNotRetrievable ProtocolIE-ID ::= 222

id-BPLMN-ID-Info-List ProtocolIE-ID ::= 223

id-SelectedPLMNID ProtocolIE-ID ::= 224

id-UAC-Assistance-Info ProtocolIE-ID ::= 225

id-RANUEID ProtocolIE-ID ::= 226

id-GNB-DU-TNL-Association-To-Remove-Item ProtocolIE-ID ::= 227

id-GNB-DU-TNL-Association-To-Remove-List ProtocolIE-ID ::= 228

id-TNLAssociationTransportLayerAddressgNBDU ProtocolIE-ID ::= 229

id-portNumber ProtocolIE-ID ::= 230

id-AdditionalSIBMessageList ProtocolIE-ID ::= 231

id-Cell-Type ProtocolIE-ID ::= 232

id-IgnorePRACHConfiguration ProtocolIE-ID ::= 233

id-CG-Config ProtocolIE-ID ::= 234

id-PDCCH-BlindDetectionSCG ProtocolIE-ID ::= 235

id-Requested-PDCCH-BlindDetectionSCG ProtocolIE-ID ::= 236

id-Ph-InfoMCG ProtocolIE-ID ::= 237

id-MeasGapSharingConfig ProtocolIE-ID ::= 238

id-systemInformationAreaID ProtocolIE-ID ::= 239

id-areaScope ProtocolIE-ID ::= 240

id-RRCContainer-RRCSetupComplete ProtocolIE-ID ::= 241

id-TraceActivation ProtocolIE-ID ::= 242

id-TraceID ProtocolIE-ID ::= 243

id-Neighbour-Cell-Information-List ProtocolIE-ID ::= 244

id-Slot-Configuration-Item ProtocolIE-ID ::= 245

id-SymbolAllocInSlot ProtocolIE-ID ::= 246

id-NumDLULSymbols ProtocolIE-ID ::= 247

id-AdditionalRRMPriorityIndex ProtocolIE-ID ::= 248

id-DUCURadioInformationType ProtocolIE-ID ::= 249

id-CUDURadioInformationType ProtocolIE-ID ::= 250

id-AggressorgNBSetID ProtocolIE-ID ::= 251

id-VictimgNBSetID ProtocolIE-ID ::= 252

id-LowerLayerPresenceStatusChange ProtocolIE-ID ::= 253

id-Transport-Layer-Addresses-Info ProtocolIE-ID ::= 254

id-Neighbour-Cell-Information-Item ProtocolIE-ID ::= 255

id-GNBDUCongestionInformation ProtocolIE-ID ::= xxx

END

-- ASN1STOP

--------------------------------------------------------- END OF CHANGES ---------------------------------------------------------------