**3GPP TSG-RAN WG3 Meeting #115 *R3-222681***

E-meeting, 21 Feb – 3 Mar 2022

**Title:** (TP for Powersaving BLCR for TS 38.470) Introduction of SIBx on TRS resources

**Source:** Huawei

**Agenda item:** 30.3

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# Introduction

The UE power saving in idle/inactive may be enabled by using the TRS/CSI-RS to sleep longer before waking up for its PO. These TRS/CSI-RS configuration is provided in SIBx. Below provides the structure in the RAN2 running CR in R2-2201814:

|  |
| --- |
| -- ASN1START  -- TAG-SIBx-START  SIBx-r17 ::= SEQUENCE {  trs-ResouceSetConfig-r17 SEQUENCE (SIZE (1..maxNrofTRS-ResourceSets-r17)) OF TRS-ResourceSet-r17 OPTIONAL, -- Need R  validityDuration-r17 ENUMERATED {1, 2, 4, 8, 16, 32, [64], [128], [256],[512]} OPTIONAL, -- Need S  lateNonCriticalExtension OCTET STRING OPTIONAL,  ...  }  TRS-ResourceSet-r17 ::= SEQUENCE {  powerControlOffsetSS-r17 ENUMERATED{db-3, db0, db3, db6},  scramblingID-r17 ScramblingId,  firstOFDMSymbolInTimeDomain-r17 INTEGER (0..9),  startingRB-r17 INTEGER (0..maxNrofPhysicalResourceBlocks-1),  nrofRBs-r17 INTEGER (24..maxNrofPhysicalResourceBlocksPlus1),  ssb-Index-r17 SSB-Index,  periodicityAndOffset-r17 CSI-ResourcePeriodicityAndOffset,  frequencyDomainAllocation-r17 BIT STRING (SIZE (4)),  indBitID-r17 INTEGER (0..5),  ...  }  -- TAG-SIBx-STOP  -- ASN1STOP |

Over F1 interface, it is the gNB-DU that generates the SIBx since the PHY related parameters are included. Then this should be reflected in the section 5.2.2.

**Proposal: The SIBx is generated by the gNB-DU, which should be captured in section 5.2.2 system information management function in TS 38.470.**

# 5. TP for BLCR for TS 38.470

**<Unchanged Text Omitted>**

### 5.2.2 System Information management function

Scheduling of system broadcast information is carried out in the gNB-DU. The gNB-DU is responsible for transmitting the system information according to the scheduling parameters available.

The gNB-DU is responsible for the encoding of the NR-MIB message. In case broadcast of SIB1 and other SIBs is needed, the gNB-DU is responsible for the encoding of the SIB1 message, SIB10, SIB12, SIB13, SIB14 and SIBx and the gNB-CU is responsible for the encoding of other SIBs. The gNB-DU may re-encode SIB9. The gNB-DU is responsible for the generation of the SystemInformation message.

The gNB-CU is responsible for receiving the positioning assistance information from LMF, e.g the positioning related SIBs. The gNB-CU notifies gNB-DU about the SIBs, and the gNB-DU signals them directly.

To support Msg3 based on-demand SI as described in TS 38.331 [11], the gNB-CU can confirm the received SI request from the UE by including the UE identity, and command the gNB-DU to broadcast the requested other SIs.

**<Unchanged Text Omitted>**