3GPP TSG-RAN WG2 Meeting #109-e R2-200xxxx

Electronic Meeting, 24th February – 6th March 2020

Agenda: x.x.x

Source: Nokia, ZTE

Title: Coordination on number of measurement identities

Document for: Discussion, Decision

# 1 Introduction

This document is to kick-off the following email discussion:

* [AT109e][005][NR15] Coordination on number of measurment ID (Nokia, ZTE)

 Scope: Coordination on number of measurement ID, Treat the documents above

 Intended outcome: Agreed CRs

 Deadline: Feb 27 1200 CET (can be prolonged if needed).

# 2 Discussion

For measurement identity coordination between MN and SN, RAN2 discussed the issue last meeting based on [1][2], and an LS[3] is sent to RAN4 to confirm the understanding on EN-DC case. After last RAN4 meeting, RAN4 already clarified in their spec, that the limitation of maximum number of reporting criteria defined for NE-DC also applies to (NG)EN-DC case.

In general, the limitations are summarized as below:

* In (NG)EN-DC, the maximum number of measIDs for “MN(LTE) configured NR serving frequency” and “SN(NR) configured NR serving frequency and non-serving frequency” is 10+9\*n;
* In NE-DC, the maximum number of measIDs for “MN(NR) configured LTE serving frequency” and “SN(LTE) configured LTE serving frequency and non-serving frequency” is 10+10\*n;
* In NR-DC, the maximum number of measIDs for “MN(NR) configured NR serving frequency and non-serving frequency” together with “SN(NR) configured NR serving frequency and non-serving frequency” is 10+9\*n;

Therefore, to make sure the network configured measurements do not exceed UE’s capability. The measurement coordination signalling should be updated. During this meeting, following contribution and CRs are provided for measurement identity coordination in MR-DC.

Coordination on number of measurment ID

[R2-2000245](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109_e%5CDocs%5CR2-2000245.zip) Corrections on maxMeasIdentitiesSCG-NR in MR-DC ZTE Corporation, Sanechips, Ericsson, NEC, CATT CR Rel-15 38.331 15.8.0 1272 2 F NR\_newRAT-Core R2-1914906

2 below Move from 5.4.1.4

[R2-2000163](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109_e%5CDocs%5CR2-2000163.zip) TDOC Capability Coordination for Measurement Reporting Identities in MR-DC Nokia, Nokia Shanghai Bell discussion Rel-15 NR\_newRAT-Core

[R2-2000162](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109_e%5CDocs%5CR2-2000162.zip) TS 38.331 Capability Coordination for Measurement Reporting Identities in MR-DC Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.8.0 1428 - F NR\_newRAT-Core

As highlighted in R2-2000163, the main difference between R2-2000245 and R2-2000162 is whether to allow coexistence of legacy and new signalling.

Note:

* The new field (i.e. *maxIntraFreqMeasIdentitiesSCG*) is used for MN to directly indicate the maximum number of measurement identities that SN can configure for intra-frequency measurement on each serving frequency. (based on RAN4 requirement)
* The legacy field (i.e. maxMeasIdentitiesSCG) was defined for MN to indicate the total maximum number of measurement identities that SN can configure for both intra-frequency and inter-frequency measurements.

In this email discussion, companies are invited to show your preference to this question.

## Q1: For MN indicated maximum number of measurement identities that can be configured by SN. Do company think there is a need to allow coexistence of both legacy and new fields?

|  |  |  |
| --- | --- | --- |
| Company  | Yes(needed)/No(not needed) | Comments |
| Nokia, Nokia Shanghai Bell | Yes | Mainly for EN-DC case which is what is deployed in the field today, instead of replacing signalling for products out in the field, we propose to keep the existing legacy signalling and add the refinements proposed by ZTE on top. This will allow newer deployments to implement the new signalling and still work with legacy products without an interoperability issue.We are not in favor of changing upgrading existing implementation as our understanding is that the limits of usage are not reached in Rel-15 that the signalling can be considered fully broken and nothing works. |
| Ericsson | No | Having old and new signaling will cause unclearity and inter-compatibility issue in inter-vendor scenarios.On top of this, according to the agreement made in RAN2#105, the old signaling should not have used anyway for EN-DC as the remaining FFS (on whether to keep the old field in the inter-node RRC messages) was only for late drop.Further, we sent an LS to RAN4 and a decision was made after almost half a year. According to their decision, RAN4 changed its specification and i believe that RAN2 should take into account these changes.We are strongly against to have coexistance of both signaling. |
|  |  |  |

## Q2: Any comments to the CR?

(Note: except maxMeasIdentitiesSCG field mentioned in Q1, other corrections are almost the same in both CRs, so companies can directly raise your comments to specific field or field description)

|  |  |
| --- | --- |
| Company  | Comments |
| Nokia, Nokia Shanghai Bell | To be constructive and allow for reasonable compromise and progress on this issue we are fine to have the changes proposed by ZTE **on top** of the legacy signalling. In fact we have used the same fields from ZTE CR and **retained legacy implementation** in our version of the CRs. |
| Ericsson | We agree with the version of ZTE. Therefore, **no coexistance of old and new signaling.** |
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# 3 Conclusion

# 4 Reference

[1] R2-1914905 Measurement coordination on maxMeasIdentitiesSCG in MR-DC ZTE Corporation, Sanechips, Ericsson, NEC, CATT discussion Rel-15 NR\_newRAT-Core R2-1912765

[2] R2-1915509 On the capability coordination of measurement reporting criteria for MR-DC Nokia, Nokia Shanghai Bell discussion Rel-15 NR\_newRAT-Core

[3] R2-1916595 LS on measurement reporting criteria for EN-DC Nokia LS out Rel-15 NR\_newRAT-Core To:RAN4