**3GPP TSG-SA5 Meeting #143-eS5-223524d3**

e-meeting, 9 - 17 May 2022

**Title: LS on Reply LS on beam measurement reports**

**Response to: R3-221383 Reply LS to SA5 on beam measurement reports from RAN3**

**Release: Rel-17**

**Work Item: NR\_ENDC\_SON\_MDT\_enh**

**Source: 3GPP SA5**

**To: RAN3**

**Cc: RAN2**

**Contact person: Mark Scott**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

**Attachments:** None.

# 1 Overall description

SA5 thanks RAN3 for the Reply LS on Beam Measurement reports for the MDT measurements, indicating it has agreed to address the beam level configuration in the case of immediate MDT measurement in NR, and for providing details of the requirements and configuration parameters.

The solution proposed states “It should be noted that the information added does not indicate which specific beam measurements should be collected and that a flag from OAM to RAN to indicate that beam measurements are needed". This proposal allows enable/disable of the collection but provides no further control from OAM. This is not sufficient in SA5 view.

The beam measurements over RRC are specified in more detail and provide support to:  
   - indicate whether only the indexes of the strongest beams are reported by the UE, or  
   - indicate that beam measurements need to be reported, and whether the measurements are RSRP/RSRQ/SINR

Potential reasons to allow OAM further control over the collection include:

- MDT measurements are triggered by OAM for reasons that are specific to the management system

- M1 measurements provide UE L3 measurements, which may be used for, e.g. coverage monitoring, capacity monitoring etc.

- leaving the configuration of the type of beam measurement to the RAN (i.e. gNB) does not seem appropriate since it is not the consumer, and is not aware of what the measurements will be used for.

- given that the reasons to configure M1 measurements are only known to the OAM, it should be the OAM to decide which beam measurements it wants to collect.  If, for example, the operator wants to have visibility over the interference level in different parts of the network (which leads to knowledge of capacity), they can trigger an RSRQ beam measurement. If instead, the operator wants to have visibility about the reference signal strength (which leads to knowledge on coverage holes, mobility performance etc), then an RSRP measurement will be triggered.

- the ability to further specify which measurements are needed helps to improve collection efficiency

- the limited configuration for this specific case is inconsistent with other measurements for which OAM does specify more than a simple on/off for the collection

SA5 can standardise additional information from OAM to further specify the beam measurements for collection.

# 2 Actions

**To RAN3**

**ACTION:** SA5 kindly asks RAN3 to take the above information into account and to provide further input on whether OAM support should be provided to 1) indicate whether beam indexes and/or beam measurements are needed, and 2) whether specific beam measurements should be specified for collection (RSRP/RSRQ/SINR).

# 3 Dates of next TSG SA WG 5 meetings

SA5#144e 27 June - 01 July 2022 Electronic meeting

SA5#145 (TBC) 15 August - 19 August 2022 Gothenburg (Sweden)