**3GPP TSG-SA5 Meeting #130e *S5-202188***

**e-meeting 20-28 April 2020**

**Source: Huawei**

**Title: pCR clarification on the D-SON terminologies**

**Document for: Approval**

**Agenda Item: 6.4.9**

# 1 Decision/action requested

***The group is asked to discuss and approve the proposals.***

# 2 References

[1] 3GPP TS 38.300: "NR; NR and NG-RAN Overall description; Stage 2".

# 3 Rationale

TS 38.300[1] describes the Automatic Neighbour Cell Relation Function which is executed on the NG-RAN node. Therefore, this contribution propose to add description of NF as an NG-RAN node to the Distributed SON.

# 4 Detailed proposal

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| **1st modified section** |

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 32.500: "Telecommunication Management; Self-Organizing Networks (SON); Concepts and requirements".

[3] 3GPP TS 28.532: "Management and orchestration; Generic management services”

[4] 3GPP TS 38.321 “NR; Medium Access Control (MAC) protocol specification”.

[5] 3GPP TS 28.552 “Management and orchestration; 5G performance measurements”

[6] 3GPP TS 32.511 " Telecommunication management; Automatic Neighbour Relation (ANR) management; Concepts and requirements"

[7] 3GPP TS 38.300 "NR; Overall description; Stage-2"

[8] 3GPP TS 36.300 "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Overall description; Stage 2"

[9] 3GPP TS 38.331: "NR; Radio Resource Control (RRC) protocol specification".

[10] 3GPP TS 28.545 "Management and orchestration; Fault Supervision (FS)”

[11] 3GPP TS 28.531 "Management and orchestration; Provisioning"

[12] 3GPP TS 28.550: "Management and orchestration; Performance assurance".

[13] 3GPP TS 28.541: "Management and orchestration; 5G Network Resource Model (NRM); Stage 2 and stage 3".

[14] 3GPP TS 38.401: "NG-RAN; Architecture description".

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| **2nd modified section** |

### 4.1.3 Distributed SON

The distributed SON (D-SON) means that the SON algorithm is located in the NFs. The NF may be an NG-RAN node which including an ng-eNB and a gNB, where a gNB may consist of a gNB-CU and one or more gNB-DU(s) (see TS 38.401 [14]). The distributed SON concept has been defined for LTE in TS 32.500 [2].

For D-SON, the NFs monitors the network events, analyses the network data, makes decisions on the SON actions and executes the SON actions in the network nodes.

Figure 4.1.3-1 shows that the 3GPP management system (MnF in Domain or 3GPP Cross Domain) is responsible for the following functions:

a) D-SON management function:

1) Switch on/off a D-SON function,

2) Provide policies, targets, and supplementary information (e.g., the range attributes) for a D-SON function.

b) D-SON evaluation function: evaluate whether the issues have been resolved, and may apply D-SON management actions.



Figure 4.1.3-1 D-SON process

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| **End of modified section** |