**3GPP TSG-SA5 Meeting #158 *S5-246540***

Orlando, USA, 18 - 22 November 2024

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.422** | **CR** | **0506** | **rev** | **-1** | **Current version:** | **19.0.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network | **X** |

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| ***Title:*** | Rel-19 CR TS 32.422 enhance the area scope to support Network Slice Based MDT | | | | | | | | | |
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| ***Source to WG:*** | Huawei, Ericsson | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TraceQoE\_OAM | | | | |  | ***Date:*** | | | 2024-10-30 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **C** |  | | | | | ***Release:*** | | | Rel-19 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
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| ***Reason for change:*** | | The LS from RAN3 (S5-245372) agreed to enhance the MDT area scope with slice information in R3-244816 and R3-245769.  Based on RAN3 definition, we propose to add the slice related information in TS 32.422. | | | | | | | | |
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| ***Summary of change:*** | | Add and update the area scope with slice information. | | | | | | | | |
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| ***Consequences if not approved:*** | | The function of SON for Network Slicing in RAN3 will make wrong implementation. | | | | | | | | |
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| ***Clauses affected:*** | | 5.10.2 | | | | | | | | |
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|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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| **1st change** |

5.10 MDT specific configuration parameters (CM)

5.10.1 Void

5.10.2 Area Scope

The Area Scope optional parameter defines the area in terms of Cells or Tracking Area/Routing Area/Location Area where the MDT data collection shall take place. The area scope specified in an MDT session shall support the PLMNs of the MDT PLMN list (defined in clause 5.10.24). If the parameter is not present the MDT data collection shall be done throughout the PLMNs of the MDT PLMN list. In case of NR NPN scenarios, the area scope parameter may also contain a combination of NPN ID and any of the existing parameters such as cells or tracking area or tracking area identity. For further details see also TS 37.320 [30] and 38.413 [49].

The Area Scope parameter in UMTS is either:

- list of Cells, identified by CGI. Maximum 32 CGI can be defined.

- List of Routing Area, identified by RAI. Maximum of 8 RAIs can be defined.

- List of Location Area, identified by LAI. Maximum of 8 LAIs can de defined.

The Area Scope parameter in LTE and NR contains one of the followings:

- list of Cells, identified by E-UTRAN-CGI or NG-RAN CGI. Maximum 32 CGI can be defined.

- List of Tracking Area, identified by TAC. Maximum of 8 TAC can be defined.

- List of Tracking Area Identity, identified by TAC with associated plmn-Identity per TAC-List containing the PLMN identity for each TAC. Maximum of 8 TAI can be defined. For further details see also TS 36.331[32].

The Area Scope parameter in NR can also contain:

- List of NPN IDs in NR. It is either a list of PNI-NPNs identified by CAG ID with associated plmn-Identity (Maximum 256 PNI-NPNs can be defined) or a list of SNPN by Network ID with associated plmn-Identity (Maximum 16 SNPNs can be defined).

- List of Network slice information in NR. It is a list of Network Slice identified by PLMN-Id and S-NSSAIs. Maximum of 1024 can be defined. For further details see Network Slice Area Scope of MDT in clause 9.3.3 in TS 38.413[49]

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| **End of change** |