**3GPP TSG-SA5 Meeting #158 *S5-247208***

 **Orlando, USA, 18 - 22 November 2024**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **28.552** | **CR** | **0635** | **rev** | **1** | **Current version:** | **19.1.0** |  |
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| *For* ***[HE](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)******[LP](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)*** *on using this form: comprehensive instructions can be found at <http://www.3gpp.org/Change-Requests>.* |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  | Update the Use Case description on Monitoring of NWDAF data collection |
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| ***Source to WG:*** | China Telecom |
| ***Source to TSG:*** | SA5 |
|  |  |
| ***Work item code:*** | NWDAF\_OAM\_Ph2 |  | ***Date:*** | 2024-11-07 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***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 canbe 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 Data Collection feature permits NWDAF to retrieve data from various data sources (e.g. NF such as AMF, SMF, PCF, UDM and AF; OAM), as a basis of the computation of network analytics (TS 23.288 clause 6.2).By monitoring the amount of data collected by the NWDAF from a specific data source over a period of time, the operators can know the total amount of data collected by the NWDAF from all data sources over a period of time. It reflects the NWDAF workload. The operators can also know whether the data collection from this specific data source is the primary factor influencing the workload of the NWDAF by comparing it with the total amount of data, so as to evaluate and optimize the entire NWDAF data collection. Moreover, according to TS 23.288 clause 6.2.6, NWDAF is able to directly collect data from NFs or collect data via DCCF or an NWDAF hosting DCCF. Therefore, the case where NWDAF collects data via DCCF or an NWDAF hosting DCCF can also be considered. |
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| ***Summary of change:*** | The use case description on Monitoring of NWDAF data collection in Annex is updated to add the description on the monitoring the amount of data collected by the NWDAF from a specific NF. |
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| ***Consequences if not approved:*** | Operators cannot get sufficient information to optimize the resource allocated to the NWDAF and to evaluate the impact of deploying NWDAF on the other NFs appropriately. |
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| ***Clauses affected:*** | Annex A |
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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 ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | S5-247208 was S5-246706 |

# A.114 Monitoring of NWDAF data collection

The Data Collection feature permits NWDAF to retrieve data from various data sources, which can be NF such as AMF, SMF, PCF, UDM, AF, UPF or OAM, as a basis of network analytics (See TS 23.288 [59]). Data Collection related measurements, such as the amount and the frequency of the data collection from different data sources, can be used to optimize the deployment of NWDAF and improve the other services provided by NWDAF. For example, based on the Data Collection related measurements, the NWDAF instance may be recommended to be geographically deployed closer to its major data source to reduce the latency and save network resources.

Therefore, the Data Collection related measurements are important factors that reflect the NWDAF Data Collection performance. Since the Data Source and the services used are different, the measurements related to different data sources need to be monitored respectively.

By monitoring the number of subscriptions/notifications for Data Collection services in a period, the operators can know how often the NWDAF collects data from the same data source and the differences from different data sources . These measurements can be used to infer the performance of NWDAF on data collection.

By monitoring the amount of data collected by the NWDAF from a specific data source over a period of time, the operators can know the total amount of data collected by the NWDAF from all data sources over a period of time, which reflects the NWDAF workload. The operators can also know whether the data collection from this specific data source is the primary factor influencing the workload of the NWDAF by comparing it with the total amount of data, so as to evaluate and optimize the entire NWDAF data collection.

Moreover, according to TS 23.288 [2] clause 6.2.6, NWDAF is able to directly collect data from NFs or collect data via DCCF or an NWDAF hosting DCCF. Therefore, the case where NWDAF collects data via DCCF or an NWDAF hosting DCCF can also be considered.