**3GPP TSG-SA5 Meeting #162 *S5-254062***

Goteborg, Sweden, 25 - 29 August 2025

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **0717** | **rev** | **1** | **Current version:** |  |  |
|  | | | | | | | | |
| *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 |  | Core Network | **X** |

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| ***Title:*** | Rel-20 CR 28.552 Add a new measurement related to the number of roaming data collection service subscriptions received by RE-NWDAF | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | China Telecom | | | | | | | | | |
| ***Source to TSG:*** | SA5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NWDAF\_Ph3-OAM | | | | |  | ***Date:*** | | | 2025-8-15 |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | | Rel-20 |
|  | *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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In TS 23.288 (SA2), the “*Nnwdaf\_RoamingData\_Subscribe service operation*” is specified under “NWDAF Roaming Data” that enables the consumer to subscribe for roaming data.  By measuring the number of roaming data collection service subscriptions received by RE-NWDAF, the operator can estimate the potential workload on NWDAF and take management actions for configuration and resource allocation. | | | | | | | | |
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| ***Summary of change:*** | | A new measurement “Number of subscriptions related to roaming data collection service received by RE-NWDAF” is introduced. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Operator will not be able to monitor the performance of “*Nnwdaf\_RoamingData\_Subscribe service operation*” and to take RE-NWDAF management actions for configuration, resource allocation, load balancing and placement purposes. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.18, Annex A | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | S5-254062 was S5-253417 | | | | | | | | |

***Start of First change***

## 5.18 Performance measurements for NWDAF

#### 5.18.X Measurements related to RE-NWDAF Data Collection

##### 5.18.X.1 Number of subscriptions related to roaming data collection service received by RE-NWDAF

a) This measurement provides the number of subscriptions related to roaming data collection service received by an RE-NWDAF.

b) CC

c) On receiving the subscription of roaming data collection service by the RE-NWDAF from an RE-NWDAF in other PLMN, each subscription is added to the corresponding counter. The measurement can be split into sub-counters per S-NSSAI and per PLMN.

In the scenario where the H-RE-NWDAF in the HPLMN as service consumer to subscribe to notifications about input data from the V-RE-NWDAF in VPLMN, when the subscription for the roaming data collection service is received by the V-RE-NWDAF, each subscription is added to the corresponding counter.

In the scenario where the V-RE-NWDAF in the VPLMN as service consumer to subscribe to notifications about input data from the H-RE-NWDAF in HPLMN, when the subscription for the roaming data collection service is received by the H-RE-NWDAF, each subscription is added to the corresponding counter.

d) It is an integer value

e) DANS. RoamingDataSerSubReceived

f) NWDAFFunction

g) Valid for packet switched traffic

h) 5GS

***Start of Second change***

Annex A (informative):

Use cases for performance measurements

A.X Monitoring of RE-NWDAF data collection

In TS 23.288, three service operations are specified under "NWDAF Roaming Data" that enables the consumer to subscribe for roaming data. These service operations include the following:

• Nnwdaf\_RoamingData\_Subscribe service operation

• Nnwdaf\_RoamingData\_Unsubscribe service operation

• Nnwdaf\_RoamingData\_Notify service operation

The number of roaming data subscriptions and notifications are some of the basic statistic information to monitor the performance of RE-NWDAF (Roaming Exchange Network Data Analytics Function). These basic measurements can be used to derive the other performance of RE-NWDAF such as roaming data service successful and/or failed rate, etc. With these measurements, operators can analyze and evaluate the performance of the RE-NWDAF. Operators can use these measurements to take management actions for configuration, resource allocation, load balance and placement purposes.

***End of Changes***