**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 |
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| ***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 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:*** | 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. |
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| ***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. |
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| ***Clauses affected:*** | 5.18, 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:*** | S5-254062 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***