**3GPP TSG-CT WG3 Meeting #135 *C3-243299r2***

**Hyderabad, IN, 27 - 31 May, 2024 (Revision of C3-24xxxx)**

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| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **29.520** | **CR** | **0910** | **rev** | **1** | **Current version:** | **18.5.0** |  |
|  |
| *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 |  | Core Network | **X** |

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|  |
| ***Title:***  | Updates to Nnwdaf\_RoamingData and Nnwdaf\_RoamingAnalytics services |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | eNA\_Ph3 |  | ***Date:*** | 2024-05-09 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** |  Rel-18 |
|  | *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)* |
|  |  |
| ***Reason for change:*** | Correct H-RE-NWDAF as V-RE-NWDAF for VPLMN in clause 4.9.1.2. |
|  |  |
| ***Summary of change:*** | Correct H-RE-NWDAF as V-RE-NWDAF for VPLMN in clause 4.9.1.2. |
|  |  |
| ***Consequences if not approved:*** | Not aligned with stage 2 requirement on roaming and not aligned within this specification. |
|  |  |
| ***Clauses affected:*** | 4.9.1.2 |
|  |  |
|  | **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 does not impact the OpenAPI file. |
|  |  |
| ***This CR's revision history:*** |  |

**Additional discussion(if needed):**

**Proposed changes:**

\*\*\* 1st Change \*\*\*

#### 4.9.1.2 Service Architecture

The 5G System Architecture is defined in 3GPP TS 23.501 [2]. The Network Data Analytics Exposure architecture, including the case of roaming, is defined in 3GPP TS 23.288 [17]. The Network Data Analytics signalling flows are defined in 3GPP TS 29.552 [25], the Policy and Charging related 5G architecture is also described in 3GPP TS 23.503 [4] and 3GPP TS 29.513 [5].

The Nnwdaf\_RoamingAnalytics service is part of the Nnwdaf service-based interface exhibited by the Network Data Analytics Function (NWDAF), but it can be provided only by an NWDAF with the roaming exchange capability, which is called Roaming Exchange NWDAF (RE-NWDAF).

The only known consumer of the Nnwdaf\_RoamingAnalytics service is the Roaming Exchange NWDAF (RE-NWDAF).

Both the RE-NWDAF that provides the Nnwdaf\_RoamingAnalytics service and the RE-NWDAF that consumes the Nnwdaf\_RoamingAnalytics service may be in the HPLMN (in which case it is denoted as H-RE-NWDAF) or in the VPLMN (in which case it is denoted as V-RE-NWDAF). If the NF service producer is the H-RE-NWDAF then the NF service consumer is the V-RE-NWDAF and vice versa.



Figure 4.9.1.2-1: Reference Architecture for the Nnwdaf\_RoamingAnalytics Service; SBI representation



Figure 4.9.1.2-2: Reference Architecture for the Nnwdaf\_RoamingAnalytics Service: reference point representation

\*\*\* End of Changes \*\*\*