**SA WG2 Meeting #137E (e-meeting)S2-2002234**

**Feb 24 - 27, 2020, Elbonia**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.502** | **CR** | **2152** | **rev** | **-** | **Current version:** | **16.3.0** |  |
|  | | | | | | | | |
| *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:*** | Update of NF Status Subscribe/Unsubscribe services with PLMN ID | | | | | | | | | |
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| ***Source to WG:*** | Tencent | | | | | | | | | |
| ***Source to TSG:*** | S2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5G\_eSBA | | | | |  | ***Date:*** | | | 2020-2-17 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
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| ***Reason for change:*** | | According to clause 4.17.8, in the case that the NF service consumer intends to subscribe to the status of NF/NF service instance(s) in home PLMN, the NRF in serving PLMN needs to request "NF status subscribe" service from NRF in the home PLMN. So the NF consumer needs to add home PLMN ID in the Nnrf\_NFManagement\_NFStatusSubscribe request message to the NRF. The reason is the same for the changes in Nnrf\_NFManagement\_NFStatusUnsubscribe service operation.  The PLMN ID parameter is missing in the optional input parameters of Nnrf\_NFManagement\_NFStatusSubscribe and Nnrf\_NFManagement\_NFStatusUnsubscribe service operations. | | | | | | | | |
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| ***Summary of change:*** | | Adding PLMN ID in clause 5.2.7.2.5 and 5.2.7.2.7. | | | | | | | | |
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| ***Consequences if not approved:*** | | PLMN ID is missing in the related services. | | | | | | | | |
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| ***Clauses affected:*** | | 5.2.7.2.5, 5.2.7.2.7 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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| ***This CR's revision history:*** |  |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* First Change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

##### 5.2.7.2.5 Nnrf\_NFManagement\_NFStatusSubscribe service operation

**Service Operation name:** Nnrf\_NFManagement\_NFStatusSubscribe.

**Description:** Consumer can subscribe to be notified of the following:

- Newly registered NF along with its NF services.

- Updated NF profile.

- Deregistered NF.

**Inputs, Required:** NF type (if NF status of a specific NF type is to be monitored), NF instance ID (if NF status of a specific NF instance is to be monitored), NF service (if NF status for NF which exposes a given NF service is to be monitored).

**Inputs, Optional:**

- PLMN ID of the target NF/NF service, in case of the subscription to the status of NF/NF service instance(s) in home PLMN from the visited PLMN.

- For the UPF Management defined in clause 4.17.6: UPF Provisioning Information as defined in that clause.

- For AMF, Consumer may include list of GUAMI(s).

- S-NSSAI(s) and the associated NSI ID(s) (if available).

- For NWDAF, Consumer may include Analytics ID(s) and TAI(s). Details about NWDAF discovery and selection are described in clause 6.3.13, TS 23.501 [2].

- For NEF, Consumer may include Event ID(s) provided by AF.

**Outputs, Required:** When the subscription is accepted: Subscription Correlation ID (required for management of this subscription).

**Outputs, Optional:** None.

NOTE: Alternatively, other means such as OA&M can also be used to subscribe for NF status.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* END CHANGES \*\*\*\*\*\*\*\*\*\*\*\*\*\*