**3GPP TSG-WG SA2 Meeting #155  *S2-230xxxx***

**Athen, 20-24 February 2023 (*revision of*** ***S2-2300824*)**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **23.501** | **CR** |  | **rev** |  | **Current version:** | **18.0.0** |  |
|  |
| *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:***  | Support of Group AF Sessions for QoS Resource Allocation and QoS monitoring operation |
|  |  |
| ***Source to WG:*** | Samsung, SK Telecom |
| ***Source to TSG:*** | SA2 |
|  |  |
| ***Work item code:*** | AIMLsys |  | ***Date:*** | 2023-01-09 |
|  |  |  |  |  |
| ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | This CR introduce the new service - QoS Resource Allocation and QoS monitoring operation for the a group of AF Sessions  |
|  |  |
| ***Summary of change:*** | Define new service to support QoS Resource Allocation and QoS monitoring operation for a group of AF sessions.  |
| ***--*** |  |
| ***Consequences if not approved:*** | Bulk support for Group AF Sessions for QoS Resource Allocation and QoS monitoring operation is not supported |
|  |  |
| ***Clauses affected:*** | 7.2.8  |
|  |  |
|  | **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:*** |  |

## **FIRST CHANGE (ALL NEW TEXT)**

### 7.2.8 NEF Services

The following NF services are specified for NEF:

Table 7.2.8-1: NF Services provided by NEF

| Service Name | Description | Reference in TS 23.502 [3] or other TS |
| --- | --- | --- |
| Nnef\_EventExposure | Provides support for event exposure. | 5.2.6.2 |
| Nnef\_PFDManagement | Provides support for PFDs management. | 5.2.6.3 |
| Nnef\_ParameterProvision | Provides support to provision information which can be used for the UE in 5GS. | 5.2.6.4 |
| Nnef\_Trigger | Provides support for device triggering. | 5.2.6.5 |
| Nnef\_BDTPNegotiation | Provides support for background data transfer policy negotiation and optionally notification for the renegotiation. | 5.2.6.6 |
| Nnef\_TrafficInfluence | Provide the ability to influence traffic routing. | 5.2.6.7 |
| Nnef\_ChargeableParty | Requests to become the chargeable party for a data session for a UE. | 5.2.6.8 |
| Nnef\_AFsessionWithQoS | Requests the network to provide a specific QoS for an AS session. | 5.2.6.9 |
| Nnef\_GroupOfAFsessionWithQoS | Requests the network to provide a specific QoS for a group of AF sessions  | 5.2.6.X |
| Nnef\_MSISDN-less\_MO\_SMS | Used by the NEF to send MSISDN-less MO SM to the AF. | 5.2.6.10 |
| Nnef\_ServiceParameter | Provides support to provision service specific information. | 5.2.6.11 |
| Nnef\_APISupportCapability | Provides support for awareness on availability or expected level of a service API. | 5.2.6.12 |
| Nnef\_NIDDConfiguration | Used for configuring necessary information for data delivery via the NIDD API. | 5.2.6.13 |
| Nnef\_NIDD | Used for NEF anchored MO and MT unstructured data transport. | 5.2.6.14 |
| Nnef\_SMContext | Provides the capability to create, update or release the SMF-NEF Connection. | 5.2.6.15 |
| Nnef\_AnalyticsExposure | Provides support for exposure of network analytics. | 5.2.6.16 |
| Nnef\_UCMFProvisioning | Provides the ability to configure the UCMF with dictionary entries consisting of UE manufacturer-assigned UE Radio Capability IDs, the corresponding UE radio capabilities, the corresponding UE Radio Capability for Paging and the (list of) associated IMEI/TAC value(s) via the NEF. The UE radio capabilities the NEF provides for a UE radio Capability ID can be in TS 36.331 [51] format, TS 38.331 [28] format or both formats. Also used for deletion (e.g. as no longer used) or update (e.g. to add or remove a (list of) IMEI/TAC value(s) associated to an entry) of dictionary entries in the UCMF. | 5.2.6.17 |
| Nnef\_ECRestriction | Provides support for queuing status of enhanced coverage restriction, or enable/disable enhanced coverage restriction per individual UEs. | 5.2.6.18 |
| Nnef\_ApplyPolicy | Provides the capability to apply a previously negotiated Background Data Transfer Policy to a UE or a group of UEs. | 5.2.6.19 |
| Nnef\_Location | Provides the capability to deliver UE location to AF. | 5.2.6.21 |
| Nnef\_AMInfluence | Provides the ability to influence access and mobility management related policies for one or multiple UEs. | 5.2.6.22 |
| Nnef\_AMPolicyAuthorization | Provides the ability to provide inputs that can be used by the PCF for deciding access and mobility management related policies. | 5.2.6.23 |
| Nnef\_AKMA | AKMA Application Key derivation service. | TS 33.535 [124] |
| Nnef\_Authentication | This service enables the consumer to authenticate and authorize the Service Level Device Identity as described in TS 23.256 [136]. | TS 23.256 [136] |
| Nnef\_TimeSynchronization | Provides the ability to support for (g)PTP or 5G access stratum based time synchronization service. | 5.2.6.25 |
| Nnef\_EASDeployment | EAS deployment service. | 5.2.6.26 |
| Nnef\_UEId | UE Identifier service, which supports to retrieve AF specific UE Identifier based on UE address. | 5.2.6.27 |
| Nnef\_MBSTMGI | Allows AF to request allocation/deallocation of TMGI(s) for MBS Session. | TS 23.247 [129] |
| Nnef\_MBSSession | Allows AF to create, update and delete MBS Session. | TS 23.247 [129] |
| Nnef\_ASTI | Provides the ability to influence 5G access stratum based time distribution configuration. | 5.2.6.28 |
| Nnef\_SMService | Used for SBI-based MO SM transmit through NEF for MSISDN-less MO SMS. | 5.2.6.29 |
| Nnef\_PDTQPolicyNegotiation | Provides support for negotiation for Planned Data Transfer with QoS requirements policy and optionally notification for the renegotiation. | 5.2.6.30 |

## **END of CHANGES**