**3GPP TSG-SA5 Meeting #129-e *S5-201113***

**Online, , 24th Feb 2020 - 4th Mar 2020**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **28.541** | **CR** | **0231** | **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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Rel 16 CR 28.541 NRM adding missing managedNFProfile Stage 2 and Stage 3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung R&D Institute UK | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNRM | | | | |  | ***Date:*** | | | 2020-02-11 |
|  |  | | | |  | |  | | |  |
| ***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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | managedNFProfile was introduced in Rel-16 for all IoCs in 28.541. However some IoC were left. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adding managedNFProfile to the remaining IoCs | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | 28.541 remains inconsistent in itself. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.3.4.2, 5.3.10.2, 5.3.17.2, F.4.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

|  |
| --- |
| **1st Change** |

### 5.3.4 N3IWFFunction

#### 5.3.4.1 Definition

This IOC represents the N3IWF function which is used to enable non-3GPP access networks connected to the 5GC. For more information about the N3IWF, see 3GPP TS 23.501 [2].

#### 5.3.4.2 Attributes

The N3IWFFunction IOC includes attributes inherited from ManagedFunction IOC (defined in TS 28.622[30]) and the following attributes:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Support Qualifier | isReadable | isWritable | isInvariant | isNotifyable |
| pLMNIdList | M | T | T | F | T |
| commModelList | M | T | T | F | T |
| managedNFProfile | M | T | T | F | T |

#### 5.3.4.3 Attribute constraints

None.

#### 5.3.4.4 Notifications

The common notifications defined in subclause 5.5 are valid for this IOC, without exceptions or additions.

### 5.3.10 NRFFunction

#### 5.3.10.1 Definition

This IOC represents the NRF function in 5GC. For more information about the NRF, see 3GPP TS 23.501 [2].

#### 5.3.10.2 Attributes

The NRFFunction IOC includes attributes inherited from ManagedFunction IOC (defined in TS 28.622[30]) and the following attributes:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Support Qualifier | isReadable | isWritable | isInvariant | isNotifyable |
| pLMNIdList | M | T | T | F | T |
| sBIFQDN | M | T | T | F | T |
| sNSSAIList | CM | T | T | F | T |
| nFProfileList | CM | T | T | F | T |
| nSIIdList | O | T | T | F | T |
| managedNFProfile | M | T | T | F | T |

#### 5.3.10.3 Attribute constraints

|  |  |
| --- | --- |
| Name | Definition |
| sNSSAIList Support Qualifier | Condition: network slicing feature is supported. |
| nfProfileList Support Qualifier | Condition: NF profile is registered and deregistered by management system. |
| nSIIdList Support Qualifier | Condition: Network slicing feature is supported. |

#### 5.3.10.4 Notifications

The common notifications defined in subclause 5.5 are valid for this IOC, without exceptions or additions.

### 5.3.17 SEPPFunction

#### 5.3.17.1 Definition

This IOC represents the SEPP function which support message filtering and policing on inter-PLMN control plane interface. For more information about the SEPP, see 3GPP TS 23.501 [2].

#### 5.3.17.2 Attributes

The SEPPFunction IOC includes attributes inherited from ManagedFunction IOC (defined in TS 28.622[30]) and the following attributes:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Support Qualifier | isReadable | isWritable | isInvariant | isNotifyable |
| pLMNId | M | T | F | T | T |
| sEPPType | M | T | F | T | T |
| sEPPId | M | T | F | T | T |
| Fqdn | M | T | T | F | T |
| managedNFProfile | M | T | T | F | T |

#### 5.3.17.3 Attribute constraints

None.

#### 5.3.17.4 Notifications

The common notifications defined in subclause 5.5 are valid for this IOC, without exceptions or additions.

|  |
| --- |
| **1st Change End** |

|  |
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| **2nd Change** |

## F.4.3 XML schema "ngcNrm.xsd"

<?xml version="1.0" encoding="UTF-8"?>

<!--

3GPP TS 28.541 5GC Network Resource Model

XML schema definition

ngcNrm.xsd

-->

<schema

targetNamespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#ngcNrm"

elementFormDefault="qualified"

attributeFormDefault="unqualified"

xmlns="http://www.w3.org/2001/XMLSchema"

xmlns:xn="http://www.3gpp.org/ftp/specs/archive/28\_series/28.623#genericNrm" xmlns:nn="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#nrNrm" xmlns:en="http://www.3gpp.org/ftp/specs/archive/28\_series/28.659#eutranNrm"

xmlns:ngc="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#ngcNrm"

>

<import namespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.623#genericNrm"/>

<import namespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.659#eutranNrm"/>

<import namespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#nrNrm"/>

<!--NGC NRM IM class associated XML elements -->

<complexType name="aMFIdentifier">

<sequence>

<element name="amfRegionId" type="ngc:AmfRegionId"/>

<element name="amfSetId" type="ngc:AmfSetId"/>

<element name="amfPointer" type="ngc:AmfPointer"/>

</sequence>

</complexType>

<simpleType name="AmfRegionId">

<restriction base="integer">

<maxInclusive value="255"/>

<!-- The AMF Region ID is 8-bitslength, defined in 23.003 -->

</restriction>

</simpleType>

<simpleType name="AmfSetId">

<restriction base="integer">

<maxInclusive value="1023"/>

<!-- The AMF Region ID is 10-bits length, defined in 23.003 -->

</restriction>

</simpleType>

<simpleType name="AmfPointer">

<restriction base="integer">

<maxInclusive value="63"/>

<!-- The AMF Pointer is 6-bits length, defined in 23.003 -->

</restriction>

</simpleType> <complexType name="NrTACList">

<sequence>

<element name="tac" type="nn:NrTac" minOccurs="0" maxOccurs="unbounded"/>

</sequence>

</complexType>

<complexType name="managedNFProfile">

<sequence>

<element name="nfInstanceID" type="string"/>

<element name="nfType" type="ngc:NfType"/>

<element name="hostAddr" type="ngc:hostAddr"/>

<element name="authzInfo" type="string" minOccurs="0"/>

<element name="location" type="string" minOccurs="0"/>

<element name="capacity" type="ngc:capacity" minOccurs="0"/>

<element name="nfInfo" type="ngc:Nfinfo"/>

</sequence>

</complexType>

<complexType name="hostAddr">

<!-- Refer to definitions in TS 28.541-->

<sequence>

<choice minOccurs="0" maxOccurs="1">

<element name="ipAddress" type="string"/>

<element name="fqdn" type="string"/>

</choice>

</sequence>

</complexType>

<simpleType name="capacity">

<!-- Refer to definitions in TS 28.541-->

<restriction base="integer">

<minInclusive value="0"/>

<maxInclusive value="65535"/>

</restriction>

</simpleType>

<complexType name="Nfinfo">

<!-- Refer to definitions in TS 28.541-->

<sequence>

<choice minOccurs="0" maxOccurs="1">

<element name="amfInfo" type="ngc:AmfInfo"/>

<element name="udrInfo" type="ngc:UdrInfo"/>

<element name="udmInfo" type="ngc:UdmInfo"/>

<element name="ausfInfo" type="ngc:AusfInfo"/>

<element name="upfInfo" type="ngc:UpfInfo"/>

</choice>

</sequence>

</complexType>

<complexType name="NFProfileList">

<sequence>

<element name="nfProfile" type="ngc:NfProfile"/>

</sequence>

</complexType>

<complexType name="NfProfile">

<sequence>

<element name="nfInstanceID" type="string"/>

<!-- nfInstanceID is uuid of NF instance -->

<element name="nfType" type="ngc:NfType"/>

<element name="nfType" type="ngc:NfType"/>

<element name="sNssais" type="ngc: SnssaiList"/>

<element name="fqdn" type="string"/>

<element name="interPlmnFqdn" type="string"/>

<element name="ipv4Addresses" type="string"/>

<element name="ipv6Addresses" type="string"/>

<element name="ipv6Prefixes" type="string"/>

<element name="capacity" type="string"/>

<element name="udrInfo" type="ngc:UdrInfo"/>

<element name="amfInfo" type="ngc:AmfInfo"/>

<element name="smfInfo" type="ngc:SmfInfo"/>

<element name="upfInfo" type="ngc:UpfInfo"/>

<element name="nfServices" type="ngc:NfServices"/>

<element name="priority" type="integer" minOccurs="0"/>

<element name="nFSrvGroupId" type=" string"/>

<element name="smfServingAreas" type="string"/>

<element name="locality" type="string"/>

<element name="authzInfo" type="string"/>

</sequence>

</complexType>

<complexType name="NfServices">

<sequence>

<element name="serviceInstanceId" type="string"/>

<element name="serviceName" type="string"/>

<element name="version" type="string"/>

<element name="schema" type="string"/>

<element name="fqdn" type="string"/>

<element name="interPlmnFqdn" type="string"/>

<element name="ipEndPoints" type="ngc:IpEndpoints"/>

<element name="apiPrefix" type="string"/>

<element name="defaultNotificationSubscriptions" type="ngc:DefaultNotificationSubscriptions"/>

<element name="allowedPlmns" type="en:PLMNIdList"/>

<element name="allowedNfTypes" type="ngc:NFTypeList"/>

<element name="allowedNssais" type="ngc:Nssai"/>

<element name="capacity" type="string"/>

<element name="supportedFeatures" type="string"/>

</sequence>

</complexType>

<simpleType name="NfType">

<restriction base="string">

<!-- NF name is defined in TS 23.501 -->

<enumeration value="NRF"/>

<enumeration value="UDM"/>

<enumeration value="AMF"/>

<enumeration value="SMF"/>

<enumeration value="AUSF"/>

<enumeration value="NEF"/>

<enumeration value="PCF"/>

<enumeration value="SMSF"/>

<enumeration value="NSSF"/>

<enumeration value="UDR"/>

<enumeration value="LMF"/>

<enumeration value="GMLC"/>

<enumeration value="5GEIR"/>

<enumeration value="SEPP"/>

<enumeration value="UPF"/>

<enumeration value="N3IWF"/>

<enumeration value="AF"/>

<enumeration value="UDSF"/>

<enumeration value="DN"/>

</restriction>

</simpleType>

<complexType name="NFTypeList">

<sequence>

<element name="NFType" type="ngc:NfType"/>

</sequence>

</complexType>

<complexType name="LocalEndPoint">

<sequence>

<element name="ipv4Address" type="string"/>

<element name="ipv6Address" type="string"/>

<element name="ipv6Prefix" type="string"/>

<element name="vlanId" type="integer"/>

</sequence>

</complexType>

<complexType name="RemoteEndPoint">

<sequence>

<element name="ipv4Address" type="string"/>

<element name="ipv6Address" type="string"/>

<element name="ipv6Prefix" type="string"/>

</sequence>

</complexType>

<complexType name="UdrInfo">

<sequence>

<element name="supiRange" type="ngc:SupiRange"/>

</sequence>

</complexType>

<complexType name="SupiRange">

<sequence>

<element name="start" type="string"/>

<element name="end" type="string"/>

<element name="pattern" type="string"/>

</sequence>

</complexType>

<complexType name="AmfInfo">

<sequence>

<element name="amfSetId" type="ngc:AmfSetId"/>

</sequence>

</complexType>

<complexType name="SmfInfo">

<sequence>

<element name="dnn" type="string"/>

</sequence>

</complexType>

<complexType name="UpfInfo">

<sequence>

<element name="snssaiUpfInfo" type="ngc:SnssaiUpfInfo"/>

</sequence>

</complexType>

<complexType name="SnssaiUpfInfo">

<sequence>

<element name="sNssai" type="ngc:SNssai"/>

<element name="dnnUpfInfoList" type="ngc:DnnUpfInfoList"/>

</sequence>

</complexType>

<complexType name="DnnUpfInfoList">

<sequence>

<element name="dnn" type="string"/>

</sequence>

</complexType>

<complexType name="DefaultNotificationSubscription">

<sequence>

<element name="notificationType" type="ngc:NotificationType"/>

<element name="callbackUri" type="string"/>

<element name="n1MessageClass" type="string"/>

<element name="n2InformationClass" type="string"/>

</sequence>

</complexType>

<simpleType name="NotificationType">

<restriction base="string">

<enumeration value="N1\_MESSAGES"/>

<enumeration value="N2\_INFORMATION"/>

<enumeration value="LOCATION\_NOTIFICATION"/>

</restriction>

</simpleType>

<simpleType name="TransportProtocol">

<restriction base="string">

<enumeration value="TCP"/>

</restriction>

</simpleType>

<simpleType name="NfStatus">

<restriction base="string">

<enumeration value="REGISTERED"/>

<enumeration value="SUSPENDED"/>

</restriction>

</simpleType>

<complexType name="NfRegistrationData">

<sequence>

<element name="heartBeatTimer" type="integer"/>

<element name="nfProfile" type="ngc:NfProfile"/>

</sequence>

</complexType>

<complexType name="NSILdList">

<sequence>

<element name="nSIId" type="string"/>

<!-- NSI Id is defined in TS 29.531 -->

</sequence>

</complexType>

<complexType name="SnssaiList">

<sequence>

<element name="sNssai" type="ngc:SNssai"/>

</sequence>

</complexType>

<complexType name="SNssai">

<sequence>

<element name="sst" type="ngc:Sst" minOccurs="0"/>

<element name="sd" type="ngc:Sd"/>

</sequence>

</complexType>

<simpleType name="Sst">

<restriction base="integer">

<maxInclusive value="255"/>

<!-- SST is 1-octets length and defined in TS 23.003 -->

</restriction>

</simpleType>

<simpleType name="Sd">

<restriction base="integer">

<maxInclusive value="65535"/>

<!-- SST is 2-octets length and defined in TS 23.003 -->

</restriction>

</complexType>

<simpleType name="WeightFactor">

<restriction base="integer">

</restriction>

</simpleType>

<simpleType name="SEPPType">

<restriction base="string">

<enumeration value="CSEPP"/>

<enumeration value="PSEPP"/>

</restriction>

</simpleType>

<complexType name="SupportedFunc">

<sequence>

<element name="function" type="string"/>

<element name="policy" type="string" minOccurs="0"/>

</sequence>

</complexType>

<complexType name="SupportedFuncList">

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</sequence>

</complexType>

<simpleType name="CommModelType">

<restriction base="string">

<enumeration value="DIRECT\_COMMUNICATION\_WO\_NRF"/>

<enumeration value="DIRECT\_COMMUNICATION\_WITH\_NRF"/>

<enumeration value="INDIRECT\_COMMUNICATION\_WO\_DEDICATED\_DISCOVERY"/>

<enumeration value="INDIRECT\_COMMUNICATION\_WITH\_DEDICATED\_DISCOVERY"/>

</restriction>

</simpleType>

<complexType name="CommModel">

<sequence>

<element name="groupId" type="integer"/>

<element name="commModelType" type="ngc:CommModelType"/>

<element name="targetNFServiceList" type="xn:dnlist"/>

<element name="commModelConfiguration" type="string"/>

</sequence>

</complexType>

<complexType name="CommModelList">

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<element name="commModel" type="ngc:CommModel"/>

</sequence>

</complexType>

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</complexType>

<element name="AMFFunction" substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass">

<complexType>

<complexContent>

<extension base="xn:NrmClass">

<sequence>

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<all>

<element name="userLabel" type="string"/>

<element name="vnfParametersList" type="xn:vnfParametersListType" minOccurs="0"/>

<element name="pLMNIdList" type="en:PLMNIdList"/>

<element name="aMFIdentifier" type="ngc:aMFIdentifier"/>

<element name="sBIFqdn" type="string"/>

<element name="snssaiList" type="ngc:SnssaiList" minOccurs="0"/>

<element name="aMFSet" type="xn:dn" minOccurs="0"/>

<element name="priority" type="integer" minOccurs="0"/>

<element name="measurements" type="xn:MeasurementTypesAndGPsList" minOccurs="0"/>

<element name="managedNFProfile" type="ngc:managedNFProfile" minOccurs="0"/>

<element name="commModelList" type="ngc:CommModelList" minOccurs="1"/>

</all>

</complexType>

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<element ref="ngc:EP\_N8"/>

<element ref="ngc:EP\_N11"/>

<element ref="ngc:EP\_N12"/>

<element ref="ngc:EP\_N14"/>

<element ref="ngc:EP\_N15"/>

<element ref="ngc:EP\_N17"/>

<element ref="ngc:EP\_N22"/>

<element ref="ngc:EP\_N26"/>

<element ref="ngc:EP\_N20"/>

<element ref="ngc:EP\_NLS"/>

<element ref="ngc:EP\_NLG"/>

<element ref="xn:VsDataContainer"/>

<element ref="xn:MeasurementControl"/>

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<all>

<element name="userLabel" type="string"/>

<element name="vnfParametersList" type="xn:vnfParametersListType" minOccurs="0"/>

<element name="pLMNIdList" type="en:PLMNIdList"/>

<element name="nRTACList" type="ngc:NrTACList"/>

<element name="sBIFqdn" type="string"/>

<element name="snssaiList" type="ngc:SnssaiList" minOccurs="0"/>

<element name="priority" type="integer" minOccurs="0"/>

<element name="measurements" type="xn:MeasurementTypesAndGPsList" minOccurs="0"/>

<element name="managedNFProfile" type="ngc:managedNFProfile" minOccurs="0"/>

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<element ref="ngc:EP\_N11"/>

<element ref="ngc:EP\_N7"/>

<element ref="ngc:EP\_N16"/>

<element ref="ngc:EP\_S5C"/>

<element ref="xn:VsDataContainer"/>

<element ref="xn:MeasurementControl"/>

</choice>

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<element name="userLabel" type="string"/>

<element name="vnfParametersList" type="xn:vnfParametersListType" minOccurs="0"/>

<element name="pLMNIdList" type="en:PLMNIdList"/>

<element name="nRTACList" type="ngc:NrTACList"/>

<element name="snssaiList" type="ngc:SnssaiList" minOccurs="0"/>

<element name="priority" type="integer" minOccurs="0"/>

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<element name="managedNFProfile" type="ngc:managedNFProfile" minOccurs="0"/>

<element name="commModelList" type="ngc:CommModelList" minOccurs="1"/>

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<element ref="ngc:EP\_N4"/>

<element ref="ngc:EP\_N3"/>

<element ref="ngc:EP\_N9"/>

<element ref="ngc:EP\_S5U"/>

<element ref="ngc:EP\_N6"/>

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<element ref="xn:MeasurementControl"/>

</choice>

</sequence>

</extension>

</complexContent>

</complexType>

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<element name="userLabel" type="string"/>

<element name="vnfParametersList" type="xn:vnfParametersListType" minOccurs="0"/>

<element name="pLMNIdList" type="en:PLMNIdList"/>

<element name="priority" type="integer" minOccurs="0"/>

<element name="measurements" type="xn:MeasurementTypesAndGPsList" minOccurs="0"/>

<element name="managedNFProfile" type="ngc:managedNFProfile" minOccurs="0"/>

<element name="commModelList" type="ngc:CommModelList" minOccurs="1"/>

</all>

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</element>

<choice minOccurs="0" maxOccurs="unbounded">

<element ref="ngc:EP\_N2"/>

<element ref="ngc:EP\_N3"/>

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<element ref="xn:MeasurementControl"/>

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<element name="userLabel" type="string"/>

<element name="vnfParametersList" type="xn:vnfParametersListType" minOccurs="0"/>

<element name="pLMNIdList" type="en:PLMNIdList" />

<element name="sBIFqdn" type="string" />

<element name="snssaiList" type="ngc:SnssaiList" minOccurs="0"/>

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