**3GPP TSG- Meeting #**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** |  | **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 | **X** | Core Network | **X** |

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|  |
| ***Title:***  | Update Nrm YANG |
|  |  |
| ***Source to WG:*** | S5 |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** |  |
|  | *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-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:*** | Add missing ManagedFunction-MeasurementControl containment in YANG already specified in Stage 2 |
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| ***Summary of change:*** | Add missing ManagedFunction -MeasurementControl containment in YANG |
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| ***Consequences if not approved:*** | Incorrect YANG model |
|  |  |
| ***Clauses affected:*** | D.2.3 |
|  |  |
|  | **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 ...  |
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| ***Other comments:*** | Code uploaded to ETSI Forge at: <https://forge.etsi.org/rep/3GPP/SA5/data-models/blob/S5-203199-Rel-16-CR-28-623-Update-NRM-YANG/yang-models/_3gpp-common-managed-function.yang>The proposal is the same as CR S5-203199 which was already approved with the addition of a single } and a changed revision date |
|  |  |
| ***This CR's revision history:*** |  |

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| **1st Change** |

## D.2.3 module \_3gpp-common-managed-functionyang

module \_3gpp-common-managed-function {

 yang-version 1.1;

 namespace urn:3gpp:sa5:\_3gpp-common-managed-function;

 prefix mf3gpp;

 import \_3gpp-common-yang-types { prefix types3gpp; }

 import \_3gpp-common-top { prefix top3gpp; }

 import \_3gpp-common-measurements { prefix meas3gpp; }

 organization "3GPP SA5";

 contact "<https://www.3gpp.org/DynaReport/TSG-WG--S5--officials.htm?Itemid=464>";

 description "The module defines a base class/grouping for major 3GPP functions.";

 reference

 "3GPP TS 28.622

 Generic Network Resource Model (NRM)

 Integration Reference Point (IRP);

 Information Service (IS)

 3GPP TS 28.620

 Umbrella Information Model (UIM)";

 revision 2020-06-23 {

 reference "CR-085";

 }

 revision 2019-11-21 {

 reference "S5-197275, S5-197735";

 }

 revision 2019-10-28 {

 reference S5-193518 ;

 }

 revision 2019-06-18 {

 description "Initial revision";

 }

 feature MeasurementsUnderManagedFunction {

 description "The MeasurementSubtree shall be contained under ManageElement";

 }

 grouping Operation {

 reference "3gpp TS 28.622";

 leaf name {

 type string;

 mandatory true;

 }

 leaf-list allowedNFTypes {

 type string;

 min-elements 1;

 description "The type of the managed NF service instance

 The specifc values allowed are described in TS 23.501";

 }

 leaf operationSemantics {

 type enumeration {

 enum REQUEST\_RESPONSE;

 enum SUBSCRIBE\_NOTIFY;

 }

 config false;

 mandatory true;

 description "Semantics type of the operation.";

 reference "3GPP TS 23.502";

 }

 }

 grouping ManagedNFServiceGrp {

 description "A ManagedNFService represents a Network Function (NF) service.";

 reference "Clause 7 of 3GPP TS 23.501.";

 leaf userLabel {

 type string;

 description "A user-friendly (and user assignable) name of this object.";

 }

 leaf nFServiceType {

 config false;

 mandatory true;

 type string;

 description "The type of the managed NF service instance

 The specifc values allowed are described in clause 7.2 of TS 23.501";

 }

 list sAP {

 key "host port";

 min-elements 1;

 max-elements 1;

 description "The service access point of the managed NF service instance";

 uses types3gpp:SAP;

 }

 list operations {

 key name;

 min-elements 1;

 uses Operation ;

 description "Set of operations supported by the managed NF

 service instance";

 }

 leaf administrativeState {

 type types3gpp:AdministrativeState;

 mandatory true;

 description "Permission to use or prohibition against using the instance";

 }

 leaf operationalState {

 type types3gpp:OperationalState;

 config false;

 mandatory true;

 description "Describes whether the resource is installed and working";

 }

 leaf usageState {

 type types3gpp:usageState ;

 config false;

 mandatory true;

 description "Describes whether the resource is actively in use at a

 specific instant, and if so, whether or not it has spare

 capacity for additional users.";

 }

 leaf registrationState {

 type enumeration {

 enum REGISTERED;

 enum DEREGISTERED;

 }

 config false;

}

 }

 grouping Function\_Grp {

 description "A base grouping for 3GPP functions.";

 leaf userLabel {

 type string;

 description "A user-friendly (and user assignable) name of this object.";

 }

 }

 grouping ManagedFunctionGrp {

 description "Abstract root class to be inherited/reused by classes

 representing 3GPP functions.

 Anywhere this grouping is used by classes inheriting from ManagedFunction

 the list representing the inheriting class needs to include all

 contained classes of ManagedFunction too. Contained classes are

 either

 - augmented into the Function class or

 - shall be included in the list representing the inheriting class

 using the grouping ManagedFunctionContainedClasses:

 1) EP\_RP solved using augment

 2) uses mf3gpp:ManagedFunctionContainedClasses;

 ";

 uses Function\_Grp;

 container vnfParametersList {

 description "Contains the parameter set of the VNF

 instance(s) corresponding to an NE.";

 presence "The presence of this container indicates that the ManagedFunction

 represented is realized by one or more VNF instance(s). Otherwise it

 shall be absent.";

 leaf vnfInstanceId {

 type string ;

 mandatory true;

 description "VNF instance identifier";

 reference "ETSI GS NFV-IFA 008 v2.1.1:

 Network Functions Virtualisation (NFV); Management and Orchestration;

 Ve-Vnfm reference point - Interface and Information Model Specification

 section 9.4.2

 ETSI GS NFV-IFA 015 v2.1.2: Network Functions Virtualisation (NFV);

 Management and Orchestration; Report on NFV Information Model

 section B2.4.2.1.2.3";

 }

 leaf vnfdId {

 type string ;

 description "Identifier of the VNFD on which the VNF instance is based.

 The absence of the leaf or a string length of zero for vnfInstanceId

 means the VNF instance(s) does not exist (e.g. has not been

 instantiated yet, has already been terminated).";

 reference "ETSI GS NFV-IFA 008 v2.1.1:

 Network Functions Virtualisation (NFV); Management and Orchestration;

 Ve-Vnfm reference point - Interface and Information Model Specification

 section 9.4.2";

 }

 leaf flavourId {

 type string ;

 description "Identifier of the VNF Deployment Flavour applied to this

 VNF instance.";

 reference "ETSI GS NFV-IFA 008 v2.1.1:

 Network Functions Virtualisation (NFV); Management and Orchestration;

 Ve-Vnfm reference point - Interface and Information Model Specification

 section 9.4.3";

 }

 leaf autoScalable {

 type boolean ;

 mandatory true;

 description "Indicator of whether the auto-scaling of this

 VNF instance is enabled or disabled.";

 }

 }

 container peeParametersList {

 description "Contains the parameter set for the control

 and monitoring of power, energy and environmental parameters of

 ManagedFunction instance(s).";

 presence "Present supported if the control and monitoring of PEE

 parameters is supported by the ManagedFunction or sub-class instance.";

 leaf siteIdentification {

 type string;

 mandatory true;

 description "The identification of the site where the

 ManagedFunction resides.";

 }

 leaf siteLatitude {

 type decimal64 {

 fraction-digits 4;

 range "-90.0000..+90.0000";

 }

 description "The latitude of the site where the ManagedFunction

 instance resides, based on World Geodetic System (1984 version)

 global reference frame (WGS 84). Positive values correspond to

 the northern hemisphere. This attribute is optional in case of

 BTSFunction and RNCFunction instance(s).";

 }

 leaf siteLongitude {

 type decimal64 {

 fraction-digits 4;

 range "-180.0000..+180.0000";

 }

 description "The longitude of the site where the ManagedFunction

 instance resides, based on World Geodetic System (1984 version)

 global reference frame (WGS 84). Positive values correspond to

 degrees east of 0 degrees longitude. This attribute is optional in

 case of BTSFunction and RNCFunction instance(s).";

 }

 leaf siteDescription {

 type string;

 mandatory true;

 description "An operator defined description of the site where

 the ManagedFunction instance resides.";

 }

 leaf equipmentType {

 type string;

 mandatory true;

 description "The type of equipment where the managedFunction

 instance resides.";

 reference "clause 4.4.1 of ETSI ES 202 336-12";

 }

 leaf environmentType {

 type string;

 mandatory true;

 description "The type of environment where the managedFunction

 instance resides.";

 reference "clause 4.4.1 of ETSI ES 202 336-12";

 }

 leaf powerInterface {

 type string;

 mandatory true;

 description "The type of power.";

 reference "clause 4.4.1 of ETSI ES 202 336-12";

 }

 }

 leaf priorityLabel {

 mandatory true;

 type uint32;

 }

 uses meas3gpp:Measurements;

 }

 grouping ManagedFunctionContainedClasses {

 description "A grouping used to containe classes (lists) contained by

 the abstract IOC ManagedFunction";

 list ManagedNFService {

 description "Represents a Network Function (NF)";

 reference "3GPP TS 23.501";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses ManagedNFServiceGrp;

 }

 }

 uses meas3gpp:MeasurementSubtree {

 if-feature MeasurementsUnderManagedFunction ;

 }

 }

}

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| **End of Change** |