**3GPP TSG-SA5 Meeting #138-e *S5-214105***

**e-meeting, 23 - 31 August 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **28.622** | **CR** | **0109** | **rev** | **1** | **Current version:** | **15.4.0** |  |
|  | | | | | | | | |
| *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:*** | Correction for vnfParametersList | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NETSLICE-5GNRM | | | | |  | ***Date:*** | | | 2021-07-29 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***Release:*** | | | *Rel-15* |
|  | *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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | * autoScalable is an optional configuration parameter as defined in ETSI NFV. This CR suggests making it clear that this attribute is optional. * It is further clarify that this attribute is mapped to isAutoscaleEnabled parameter as defined in vnfConfigurableProperty in VnfInfo of IFA008. | | | | | | | | |
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| ***Summary of change:*** | | 1, marks autoScalable as optional  2, in note 2, clarify that autoScalable is mapped to isAutoscaleEnabled parameter as defined in vnfConfigurableProperty in VnfInfo of IFA008 | | | | | | | | |
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| ***Consequences if not approved:*** | | Usage of vnfParametersList is not clear, may even lead mistakes. | | | | | | | | |
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| ***Clauses affected:*** | | 4.4.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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| **1st Change** |

4.4 Attribute definitions

4.4.1 Attribute properties

The following table defines the properties of attributes specified in the present document.

| **Attribute Name** | | **Documentation and Allowed Values** | | | **Properties** | |
| --- | --- | --- | --- | --- | --- | --- |
| farEndEntity | | The value of this attribute shall be the Distinguished Name of the far end network entity to which the reference point is related.  As an example, with EP\_Iucs, if the instance of EP\_Iucs is contained by one RncFunction instance, the farEndEntity is the Distinguished Name of the MscServerFunction instance to which this Iucs reference point is related.  allowedValues: N/A | | | type: DN  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: No  isNullable: False | |
| linkType | | This attribute defines the type of the link.  allowedValues: Signalling, Bearer, OAM&P, Other or multiple combinations of this type. | | | type: String  multiplicity: 0..\*  isOrdered: F  isUnique: T  defaultValue: No  isNullable: False | |
| locationName | | The physical location of this entity (e.g. an address).  allowedValues: N/A | | | type: String  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: No  isNullable: False | |
| objectClass | | An attribute which captures the name of the class from which the object instance is an occurrence of.  allowedValues: N/A | | | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: No default value  isNullable: False | |
| objectInstance | | An information which captures the Distinguished Name of any object.  allowedValues: N/A | | | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: No default value  isNullable: False | |
| peeParametersList | | This attribute contains the parameter list for the control and monitoring of power, energy and environmental parameters of ManagedFunction instance(s). This list contains the following parameters:  - siteIdentification  - siteLatitude (optional)  - siteLongitude (optional)  - siteDescription  - equipmentType  - environmentType  - powerInterface  siteIdentification: The identification of the site where the ManagedFunction resides.  allowedValues: N/A  siteLatitude: 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).  allowedValues: -90.0000 to +90.0000  siteLongitude: 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).  allowedValues: -180.0000 to +180.0000  siteDescription: An operator defined description of the site where the ManagedFunction instance resides.  allowedValues: N/A  equipmentType: The type of equipment where the managedFunction instance resides.  allowedValues: see clause 4.4.1 of ETSI ES 202 336-12 [18].  environmentType: The type of environment where the managedFunction instance resides.  allowedValues: see clause 4.4.1 of ETSI ES 202 336-12 [18].  powerInterface: The type of power.  allowedValues: see clause 4.4.1 of ETSI ES 202 336-12 [18]. | | | type: String  multiplicity: 0..\*  isOrdered: N/A  isUnique: True  defaultValue: No default value  isNullable: True | |
| priorityLabel | | This is a label that consumer would assign a value on a concrete instance of the managed object. The management system takes the value of this attribute into account. The effect of this attribute value to the subject managed entity is not standardized | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: No default value  isNullable: False | |
| protocolVersion | | Versions(s) and additional descriptive information for the protocol(s) used for the associated communication link. Syntax and semantic is not specified.  allowedValues: N/A | | | type: String  multiplicity: \*  isOrdered: F  isUnique: T  defaultValue: no default value  isNullable: False | |
| setOfMcc | | Set of Mobile Country Code (MCC). The MCC uniquely identifies the country of domicile of the mobile subscriber. MCC is part of the IMSI (TS 23.003 [5])  This list contains all the MCC values in subordinate object instances to this SubNetwork instance.  allowedValues: See clause 2.3 of TS 23.003 [5] for MCC allocation principles. | | | type: Integer  multiplicity: 1..\*  isOrdered: F  isUnique: T  defaultValue: No default value  isNullable: False | |
| swVersion | | The software version of the ManagementNode or ManagedElement (this is used for determining which version of the vendor specific information is valid for the ManagementNode or ManagedElement).  allowedValues: N/A | | | type: String  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: No default value  isNullable: False | |
| systemDN | | The Distinguished Name (DN) of IRPAgent. Defined in 3GPP TS 32.300.  allowedValues: N/A | | | type: DN  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: No default value  isNullable: False | |
| userDefinedState | | An operator defined state for operator specific usage.  allowedValues: N/A | | | type: String  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: No default value  isNullable: False | |
| userLabel | | A user-friendly (and user assignable) name of this object.  allowedValues: N/A | | | type: String  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: No default value  isNullable: False | |
| vendorName | | The name of the vendor.  allowedValues: N/A | | | type: String  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: No default value  isNullable: False | |
| vnfParametersList | | This attribute contains the parameter set of the VNF instance(s) corresponding to an NE. Each entry in the list contains:  - vnfInstanceId  - vnfdId (optional)  - flavourId (optional)  - autoScalable (optional)  vnfInstanceId: VNF instance identifier (vnfInstanceId, see section 9.4.2 of [16] and section B2.4.2.1.2.3 of [17]).  See Note 1.  vnfdId: Identifier of the VNFD on which the VNF instance is based, see section 9.4.2 of [16]. This attribute is optional.  Note: the value of this attribute is identical to that of the same attribute in clause 9.4.2 of ETSI GS NFV-IFA 008 [16].  flavourId: Identifier of the VNF Deployment Flavour applied to this VNF instance, see section 9.4.3 of [16]. This attribute is optional.  Note: the value of this attribute is identical to that of the same attribute in clause 9.4.3 of ETSI GS NFV-IFA 008 [16].  autoScalable: Indicator of whether the auto-scaling of this VNF instance is enabled or disabled. The type is Boolean.  This attribute is optional.  See Note2.  The presence of this attribute indicates that the ManagedFunction represented by the MOI is a virtualized function.  See Note 3.  allowedValues: N/A  A string length of zero for vnfInstanceId means the VNF instance(s) corresponding to the MOI does not exist (e.g. has not been instantiated yet, has already been terminated). | | | type: String  multiplicity: \*  isOrdered: N/A  isUnique: True  defaultValue: None  isNullable: True | |
| vsData | | Vendor specific attributes of the type vsDataType. The attribute definitions including constraints (value ranges, data types, etc.) are specified in a vendor specific data format file.  allowedValues: -- | | | type: --  multiplicity: --  isOrdered: --  isUnique: --  defaultValue: --  isNullable: False | |
| vsDataFormatVersion | | Name of the data format file, including version.  allowedValues: N/A | | | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: No  isNullable: False | |
| vsDataType | | Type of vendor specific data contained by this instance, e.g. relation specific algorithm parameters, cell specific parameters for power control or re-selection or a timer. The type itself is also vendor specific.  allowedValues: N/A | | | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: No  isNullable: False | |
| pMAdministrativeState | | It indicates the administrative state of MeasurementControl. It describes the permission to use or prohibition against using the capability of MeasurementControl, imposed through the consumer of OAM services produced by MeasurementControl,  The measurement report production would begin when pMadministrativeState is UNLOCKED and pMoperationalState is ENABLED.  The meaning of these values is as defined in 3GPP TS 28.625 [21] and ITU-T X.731 [19].  allowedValues: LOCKED, SHUTTING DOWN, UNLOCKED. | | | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: “LOCKED”  isNullable: False | |
| pMOperationalState | | It indicates the operational state of MeasurementControl. It describes if the resource is physically installed and working.  allowedValues: ENABLED, DISABLED.  The meaning of these values is as defined in 3GPP TS 28.625 [21] and ITU-T X.731 [19]. | | | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: No  allowedValues: N/A  isNullable: False | |
| managedObjectDNs | | It identifies the managed entities whose Measurements are required to be produced.  It identifies specific managed entities say X, Y, Z. They are called, X, Y and Z, the base.  In case the base is SubNetwork, it identifies all, including the base, managed entities that are subordinates, in the sense of name-containment, of the base.  The identified entities are called a collection. The presence of this IOC would mean Measurement types specified in attribute MeasurementReader.measurementTypes, are required to be produced if the member (of the collection) is capable of supporting the Measurement types.  allowedValues: N/A | | | type: DN  multiplicity: \*  isOrdered: N/A  isUnique: True  defaultValue: No  isNullable: False | |
| managedObjectDNsBasic | | It identifies the managed entities whose Measurements are required to be produced.  It identifies specific managedentities (say X, Y, Z), it would mean Measurements type specified in MeasurementReader.measurementTypes, are required to be produced if X, Y, Z are capable of supporting the Measurement types.  If managedObjectDNs of the same MeasurementReader instance has valid information, the information of this attribute is ignored.  allowedValues: N/A | | | type: DN  multiplicity: \*  isOrdered: N/A  isUnique: True  defaultValue: No  isNullable: False | |
| measurementsList | | It specifies a list of supported measurements and their GPs. A NULL value indicates there is no measurement supported.  allowedValues: N/A | | | type: Measurements  multiplicity: \*  isOrdered: N/A  isUnique: N/A  defaultValue: None  allowedValues: N/A  isNullable: True | |
| measurementTypes | | It identifies one or more Measurement types. The Measurement type can be those specified in TS 28.552 [20], TS 32.404 [21] and can be those specified by other SDOs or can be vendor-specific.  allowedValues: N/A | | | type: String  multiplicity: \*  isOrdered: N/A  isUnique: True  defaultValue: No  isNullable: False | |
| gPs | | It identifies the supported GPs, see Note 4.  allowedValues: N/A | | | type: Integer  multiplicity: \*  isOrdered: False  isUnique: True  defaultValue: No  isNullable: False | |
| defaultFileBasedGP | | This is a property of the file-based delivery method. See definition of fileBasedGP. This value is ignored in case the property captured in MeasurementReader is in use. GP unit is in minute. | | | Same as in fileBasedGP | |
| defaultFileReportingPeriod | | This is a property of the file-based delivery method. See definition of fileReportingGP. This value is ignored in case the property captured in MeasurementReader is in use. | | | Same as in fileReportingPeriod | |
| defaultFileLocation | | This is a property of the file-based delivery method. See definition of fileLocation. This value is ignored in case the property captured in MeasurementReader is in use. | | | Same as in fileLocation | |
| defaultStreamBasedGP | | This is a property of the stream-based delivery method. See definition of streamBasedGP. This value is ignored in case the property captured in MeasurementReader is in use. | | | Same as in streamBasedGP | |
| defaultStreamTarget | | This is a property of the stream-based delivery method. See definition of streamTarget. This value is ignored in case the property captured in MeasurementReader is in use. | | | Same as in  streamTarget | |
| fileBasedGP | | This defines the frequency of producing the measurement data. The measurement data would be produced immediately at the end of each fileBasedGP. A measurement report file contains multiple measurement data. GP unit is in minute.  allowedValues: See Note 4. | | | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: No  isNullable: False | |
| fileReportingPeriod | | This defines the frequency of producing the measurement report files, in fileLocation, that hold the measurement reports.  allowedValues: Its value is a multiple of fileBasedGP. | | | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: No  isNullable: False | |
| fileLocation | | This is used for the file-based delivery method. It is the path to a location on either the producer’s file system or a URI to a network file location that is not part of the producer’s file system.  In case it points to a location on the producer’s file system, it is a relative path based on a vendor-specified root directory for measurement files.  The size of this fileLocation is decided by consumer and producer. The producer is expected to remove old files to make room for new files, when necessary.  allowedValues: Not applicable. | | | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: No  isNullable: True | |
| streamBasedGP | | It defines the frequency of producing and sending the Measurement to the streamTargets.  allowedValues: See Note 4. | | | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: No  isNullable: False | |
| streamTarget | | This identifies the target of the notification carrying the content of the measurement report.  There are two delivery methods (i.e. file-based and stream-based) via which the consumer(s) can receive the Measurements. This attribute is used for the stream-based delivery method.  allowedValues: N/A | | | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: No  isNullable: True | |
| NOTE 1 : The value of this attribute is identical to that of the same attribute in clause 9.4.2 of ETSI GS NFV-IFA 008 [16].  NOTE 2: The value of this attribute is identical to that of the attribute isAutoscaleEnabled included in vnfConfigurableProperty in clause 9.4.2 of ETSI GS NFV-IFA 008 [16].  NOTE 3:The presence of the attribute vnfParametersList, whose vnfInstanceId with a string length of zero, in createMOI operation can trigger the instantiation of the related VNF/VNFC instances.  NOTE 4: The GP defines the measurement data production rate. The supported rates are dependent on the capacity of the producer involved (e.g. the processing power of the producer, the complexity of the measurement type involved etc) and therefore, it cannot be standardized for all producers involved. The supported GPs reflects the agreement between producer and the consumer involved. | | | | | | |