**3GPP TSG-SA5 Meeting #155 *S5-242465***

**Jeju, South Korea, 27 - 31 May 2024**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
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|  | **28.536** | **CR** | **0074** | **rev** | **1** | **Current version:** |   |  |
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| *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:***  | Rel-17 CR TS 28.536 Correct issues for assurance management NRM fragment |
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| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | TEI16 |  | ***Date:*** | 2024-05-06 |
|  |  |  |  |  |
| ***Category:*** | A |  | ***Release:*** | Rel-17 |
|  | *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:*** | 1. The Enum value for several attributes(e.g. controlLoopLifeCyclePhase) of generic NRM fragment are not aligned with the following rules in TS 32.156.*Enumeration literal is composed of one or more words of upper case characters. Words are separated by the underscore character.*2. Duplicated description for allowed values. |
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| ***Summary of change:*** | 1.Update Enum value to align with rules in TS 32.156.2. Remove the duplicated description for allowed values |
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| ***Consequences if not approved:*** | Several issues for assurance management NRM fragment exist in the published TS 28.536 |
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| ***Clauses affected:*** | 4.1.2.4.1 |
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|  | **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:*** | No impact on the YAML Solution Set |
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| ***This CR's revision history:*** |  |

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| **1st Change** |

#### 4.1.2.4 Attribute definitions

##### 4.1.2.4.1 Attribute properties

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

Table 4.1.2.4.1.1

| Attribute Name | Documentation and Allowed Values | Properties |
| --- | --- | --- |
| controlLoopLifeCyclePhase | It indicates the lifecycle phase of the AssuranceClosedControlLoop instance. AllowedValues: PREPARATION, COMMISSIONING, OPERATION， DECOMMISSIONING.  | type: Enummultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| assuranceTargetName | The name of the attribute which is part of AssuranceTarget and AssuranceTargetStatus. The assuranceTargetName uniquely identifies the name of an AssuranceTarget instance in corresponding AssuranceTargetStatus instance.The assuranceTargetName shall be equal to the name of an attribute in the relevant ServiceProfile or SliceProfile. The relevant ServiceProfile or SliceProfile is identified by the attribute serviceProfileId or sliceProfileId in the AssuranceGoal. | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| assuranceTargetValue | The value of the attribute which is part of AssuranceTarget | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| assuranceTargetList | This is an attribute containing a list of AssuranceTarget(s) that are part of an AssuranceGoal | type: AssuranceTargetmultiplicity: 1..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| observationTime | It indicates the observation period of assuranceGoalStatusObserved and assuranceGoalStatusPredicted.The assurance goal will be observed from the start of each observation period, then at the end of each observation period, the value for assuranceGoalStatusObserved and assuranceGoalStatusPredicted will be derived and configured. The observation time is expressed in seconds. | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| assuranceGoalStatusObserved | It holds the status of the observed goal fulfilment to the assuranceGoal. The value is FULFILLED only if all the constituent assuranceTargetStatusObserved are FULFILLED. During the initial operation of a closed control loop no fulfilment information may be available to report, the value NO\_REPORT will be used.allowedValues: "NO\_REPORT , "FULFILLED", “NOT\_FULFILLED Editor’s Note: Whether a more suiteable phrase for NO\_REPLY is needed is FFS. | type: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| assuranceGoalStatusPredicted | It holds the status of the predicted future goal fulfilment to the assuranceGoal . The value is FULFILLED only if all the constituent assuranceTargetStatusPredicted are FULFILLED.During the initial operation of a closed control loop no fulfilment information may be available to report, the value NO\_REPORT will be used.allowedValues: "NO\_REPORT", "FULFILLED", “NOT\_FULFILLED".Editor’s Note: Whether a more suiteable phrase for NO\_REPLY is needed is FFS. | type: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| assuranceTargetStatusObserved | It holds the status of the observed target fulfilment to the assuranceGoal. allowedValues: "FULFILLED", “NOT\_FULFILLED  | type: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| assuranceTargetStatusPredicted | It holds the status of the predicted future target fulfilment to the assuranceGoal allowedValues: "FULFILLED", “NOT\_FULFILLED" | type: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| networkSliceRef | It holds the reference to the NetworkSlice instance subject to assurance requirements | type: Dnmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| networkSliceSubnetRef | It holds the reference to the NetworkSliceSubnet instance subject to assurance requirements | type: Dnmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| operationalState | It indicates the operational state of the AssuranceClosedControlLoop instance. It describes whether the resource is installed and partially or fully operable (ENABLED) or the resource is not installed or not operable (DISABLED).allowedValues: "ENABLED", "DISABLED".The meaning of these values is as defined in 3GPP TS 28.625 [14] and ITU-T X.731 [15]. | type: ENUM multiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: DISABLEDisNullable: False |
| administrativeState | It indicates the administrative state of the AssuranceClosedControlLoop instance. It describes the permission to use or the prohibition against using the AssuranceClosedControlLoop instance. The administrative state is set by the MnS consumer. allowedValues: "LOCKED", "UNLOCKED".The meaning of these values is as defined in 3GPP TS 28.625 [14] and ITU-T X.731 [15]. | type: ENUM multiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: LOCKEDisNullable: False |
| assuranceScope | It indicates the target for assurance goal in terms of a particular location.Allowed values: Not Applicable | type: AssuranceScope multiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| ManagedEntityIdentifier | The DN of a managed entityAllowed values: not applicable | Type: DNmultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| attributeNameList | This is a list parameter identifies a list ofthe attributes names of a ManagedElement or a Subnetwork identified with ManagedEntityIdentifier that are **not** allowed to be modified by an ACCL. Allowed values: not applicable | Type: AttributeNameList of Stringmultiplicity: \*isOrdered: TrueFalseisUnique: TruedefaultValue: NoneisNullable: False |
| aCCLDisallowedList | This is a list of ACCLDisallowedAttributesparameter identifies the list of ManagedElement or Subnetwork identified with ManagedEntityIdentifier and corresponding attributes that are not allowed to be modified by an ACCL. Allowed values: not applicable | Type: ACCLDisallowedAttributesmultiplicity: \*isOrdered: TrueFalseisUnique: TruedefaultValue: NoneisNullable: False |
| assuranceGoalStatusId | The indication of the AssuranceGoalStatus. | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| assuranceTargetStatusId | The indication of the AssuranceTargetStatus. | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| assuranceGoalStatusList | This is an attribute containing a list of assuranceGoalStatus | type: AssuranceGoalStatusmultiplicity: 1..\*isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| assuranceTargetStatusList | This is an attribute containing a list of assuranceTargetStatus | type: AssuranceTargetStatusmultiplicity: 1..\*isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| assuranceGoalDnId | It holds the identity in AssuranceGoalStatus that uniquely identifies the corresponding Dn of the AssuranceGoal instance for which the assuranceGoalStatus applies | type: Dnmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| NOTE 1: VoidNOTE 2: Void |

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| **End of Changes** |