**3GPP TSG-SA5 Meeting #156 *S5-244282***

**Maastricht, The Netherlands, 19 - 23 August 2024**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **28.312** | **CR** | **0234** | **rev** | **1** | **Current version:** | **18.4.0** |  |
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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-18 CR TS 28.312 Correct the description of FulfilmentInfo |
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| ***Source to WG:*** | ZTE Corporation |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | IDMS\_MN\_ph2 |  | ***Date:*** | 2024-08-02 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***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:*** | 1. The “FulfilmentInfo” is used for ExpectationTargets, IntentExpectations and Intent, which includes “notFulfilledState” representing the current progress of achieving fulfilemnt for the intent. However, it is unclear that the allowed values of “notFulfilledState” apply to which aspact of an intent (i.e. either an expectation, a target or the whole intent).
2. notFulfilledState should be supported by extra information describing or related to the state, which should be recorded in the notFulfilledReasons field. The descrpition above is incosistent with the attribute definition of “notFulfilledState”.
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| ***Summary of change:*** | 1. Clarify the usage of allowedValues of “notFulfilledState”.
2. Correct the attribute definition of “notFulfilledState”.
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| ***Consequences if not approved:*** | Unclear and incosistent description may cause misunderstanding. |
|  |  |
| ***Clauses affected:*** | 6.2.1.3.5, 6.2.1.4 |
|  |  |
|  | **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:*** | No impact on stage 3. |
|  |  |
| ***This CR's revision history:*** |  |

***Start of First change***

##### 6.2.1.3.5 FulfilmentInfo << dataType >>

###### 6.2.1.3.5.1 Definition

This dataType represents the properties of a specific fulfilment information for an aspect of the intent (i.e. either an expectation, a target or the whole intent). The fulfilment information describes the MnS producer's assessment of the degree to which a specific aspect of the intent is being fulfilled. The MnS consumer may however assess the fulfilment differently, e.g. the MnS consumer may evaluate the delivered outcome or network state to compute its fulfilment satisfaction.

The fulfilmentStatus field indicates whether the intent is being fulfilled or not being fulfilled. The possible values of the fulfilment include:

- NOT\_FULFILLED: This is the default status for any aspect of the intent and the fulfilmentStatus remains as "NOT\_FULFILLED" until the MnS producer is satisfied that the actions undertaken meet the requirements as stated by the MnS consumer.

- FULFILLED: This is the status if the MnS producer considers that the intent, expectation or target is being fulfilled as desired by the MnS consumer that created the intent. The consumer may provide a fulfilment satisfaction report that either confirms the fulfilment or describes its evaluation of the fulfilment.

The degree of fulfilment of an intent with the NOT\_FULFILLED status may have multiple explanations and related states. These different progress states and conditions are recorded in the notFulfilledState field. notFulfilledState is present only when FulfilmentInfo is implemented for IntentFulfilmentInfo. The possible values of the notFulfilledState include:

- ACKNOWLEDGED: this is the default state and is the initial notFulfilledState right after the intent has been received.

- COMPLIANT: this is the state after the feasibility check has been run for the intent and the intent is accepted as being compliant for fulfilment.

- DEGRADED: this is the state if an intent that was previously fulfilled but after a period of observation it is found not be meeting the initially stated requirements.

- SUSPENDED: this is the state if the MnS producer decides to suspend the fulfilment of the intent, expectation or target for whatever reason. This notFulfilledState shall be supported by a reason such as the event(s) that were observed when fulfilment was attempted.

- TERMINATED: This state is registered if the respective aspect of the intent (i.e. either an expectation, a target or the whole intent) shall not be considered for fulfilment e.g. when an authorized MnS consumer sends an indication terminating the specific aspect of the intent. For instance, if the MnS consumer sends an update of the intent in which a particular target is eliminated, then that target shall be marked as cancelled.

- FULFILMENTFAILED: This is the state when the MnS producer decides that the intent, expectation or target cannot be fulfilled. This state shall be supported by a reason such as the event(s) that were observed when fulfilment was attempted.

For some scenarios (in particular for the notFulfilledState with value "DEGRADED", “TERMINATED", "SUSPENDED" and "FULFILMENTFAILED"), the notFulfilledState should be supported by extra information describing or related to the state. This extra information is recorded into the notFulfilledReasons field.

###### 6.2.1.3.5.2 Attributes

The FulfilmentInfo includes the following attributes.

Table 6.2.1.3.5.2-1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute Name | Support Qualifier | isReadable  | isWritable | isInvariant | isNotifyable |
| fulfilmentStatus | M | T | F | F | T |
| notFulfilledState | CM | T | F | F | T |
| notFulfilledReasons | CO | T | F | F | T |

###### 6.2.1.3.5.3 Attribute constraints

Table 6.2.1.3.5.3-1

|  |  |
| --- | --- |
| Name | Definition |
| notFulfilledState Support Qualifier | Condition: when FulfilmentInfo is implemented for IntentFulfilmentInfo  |
| notFulfilledReasonsSupport Qualifier | Condition: when FulfilmentInfo is implemented for IntentFulfilmentInfo  |

###### 6.2.1.3.5.4 Notifications

The notifications specified for the IOC using this <<dataType>> for its attribute(s), shall be applicable.

***End of First change***

***Start of Second change***

#### 6.2.1.4 Attribute definition

Table 6.2.1.4-1

| Attribute Name | Documentation and Allowed Values | Properties |
| --- | --- | --- |
| userLabel | A user-friendly (and user assignable) name of the intent.allowedValues: Not Applicable | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| intentExpectations | It describes the expectations including requirements, goals and contexts (including constraints and filter information) given to a 3GPP system. It states the list of specific outcomes desired to be realized for expectation object(s).The intentExpectations are arranged in an ordered list with order such that the most important intentExpectations are on the top of the list.allowedValues: Not Applicable | type: IntentExpectationmultiplicity: 1..\*isOrdered: TrueisUnique: TruedefaultValue: NoneisNullable: False  |
| intentFulfilmentInfo | It describes status of fulfilment of an intent and the related reasons for that status. allowedValues: Not Applicable | type: FulfilmentInfomultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| expectationFulfilmentInfo | It describes status of fulfilment of an intentExpectation and the related reasons for that status.allowedValues: Not Applicable | type: FulfilmentInfomultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| targetFulfilmentInfo | It describes status of fulfilment of an expectationTarget and the related reasons for that status. allowedValues: Not Applicable | type: FulfilmentInfomultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| fulfilmentStatus | It describes the current status of the intent fulfilment result, which is configured by MnS producer and can be read by MnS consumer.allowedValues: "FULFILLED", "NOT\_FULFILLED" | type: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| notFulfilledState | It describes the current progress for not achieving fulfilment for the intent, intentExpectation or expectationTarget. It is configured/written by MnS producer and can be read by MnS consumer.allowedValues: "ACKNOWLEDGED", "COMPLIANT", "DEGRADED", "SUSPENDED", "TERMINATED" "FULFILMENTFAILED" | type: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| notFulfilledReasons | It describes the reasons/observations related to the specific notFulfilledStateallowedValues: Not Applicable | type: Stringmultiplicity: \*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| intentContexts | It describes the list of IntentContext(s) which represents the constraints and conditions that should apply for the entire intent even if there may be specific contexts defined for specific parts of the intent.allowedValues: triple of (attribute, condition, value range) | type: Contextmultiplicity: \*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| expectationId | A unique identifier of the intentExpectation within the intent.allowedValues: Not Applicable | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| expectationVerb | It describes the characteristic of the intentExpectation and is the property that describes the types of intentExpectations. Examples of verbs and their related types of expectation are Deliver: DeliveryIntentExpectation, e.g. Deliver a RAN network, Service, Slice, functionEnsure: AssuranceintentExpectation, e.g. Ensure the target performance value.allowedValues: DELIVER, ENSUREVendor extensions are allowed | type: Stringmultiplicity: 1isOrdered:N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| expectationObject | It describes the expectation objects to which the IntentExpectation should apply.allowedValues: Not Applicable | type: ExpectationObjectmultiplicity: 1isOrdered:N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| objectType | It describes the type of expectation object of the IntentExpectation that is required to be applied to. It can be class name of the managed object.allowedValues: see scenario specific IntentExpectation | type: Enummultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| objectInstance | It describes a specific object instance (e.g. instance of managed object) to which the intentExpectation should apply.allowedValues: Not Applicable | type: DNmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| objectContexts | It describes the list of ObjectContext(s) which represents the constraints and conditions to be used as filter information to identify the object(s) to which a given intentExpectation should apply. Note there may be other constraints and conditions defined either for the entire intent, for the specific intentExpectation or for the expectationTarget of the considered intentExpectation.The concrete ObjectContext depends on the ExpectationObject, which is defined in clause 6.2.2. All the concrete ObjectContexts follow the common structure of ObjectContext | type: Contextmultiplicity: \*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| expectationTargets | It describes the list of ExpectationTarget(s) which represent specific outcomes on the metrics that characterize the performance of the object(s) or some abstract index that expresses the behavior of the object(s) that are desired to be realized for a given intentExpectation.The concrete ExpectationTarget depends on the ExpectationObject, which is defined in clause 6.2.2. All the concrete ExpectationTargets follow the common structure of ExpectationTarget.The expectionTargets are arranged in an ordered list with order such that the most important expectionTargets are on the top of the list. | type: ExpectationTargetmultiplicity: 1..\*isOrdered: TrueisUnique: TruedefaultValue: NoneisNullable: False |
| expectationContexts | It describes the list of context(s) which represents the constraints and conditions that should apply for a specific intentExpectation.Note there may be other constraints and conditions defined for the entire intent or for specific parts of the intentExpectation.allowedValues: depends on Expectation Object in the IntentExpectation | type: Contextmultiplicity: \*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| targetName | It describes the name of the expectation target which represents specific outcomes on the metrics that characterize the performance of the object(s) or some abstract index that expresses the behavior of the object(s) that are desired to be realized for a given intentExpectation.allowedValues: depends on ExpectationObject in the IntentExpectation | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NullisNullable: True |
| targetCondition | It expresses the limits within which the targetName is allowed/supposed to be. allowedValues: IS\_EQUAL\_TO", "IS\_LESS\_THAN", "IS\_GREATER\_THAN", "IS\_WITHIN\_RANGE", "IS\_OUTSIDE\_RANGE", "IS\_ONE\_OF", " IS\_EQUAL\_TO\_OR\_LESS\_THAN”, "IS\_EQUAL\_TO\_OR\_GREATER\_THAN", "IS\_NOT\_ONE\_OF", "IS\_ALL\_OF" | type: Enummultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: "is equal to"isNullable: False |
| targetValueRange | It describes the range of values that applicable to the targetName and the targetCondition.allowedValues: depends on the targetCondition.The value will be a single value when the targetCondition is either "IS\_EQUAL\_TO", "IS\_LESS\_THAN", "IS\_GREATER\_THAN", "IS EQUAL TO OR LESS THAN", "IS EQUAL TO OR GREATER THAN” The value will be a pair of values when the targetCondition is either "IS\_WITHIN\_RANGE", "IS\_OUTSIDE\_RANGE"The value will be a list when the targetCondition is "IS\_ONE\_OF", "IS\_NOT\_ONE\_OF","IS\_ALL\_OF". See NOTE 1.  | type: ValueRangeTypemultiplicity: 1..\*isOrdered: FalseisUnique: TruedefaultValue: NullisNullable: True |
| targetContexts | It describes the list of constraints and conditions that should apply for a specific expectationTarget. Note there may be other constraints and conditions defined for the entire intent or the intentExpectation.allowedValues: Not Applicable | type: Contextmultiplicity: \*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| contextAttribute | It describes a specific attribute of or related to the object or to characteristics thereof (e.g. its control parameter, gauge, counter, KPI, weighted metric, etc) to which the expectation should apply or an attribute related to the operating conditions of the object (such as weather conditions, load conditions, etc). | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NullisNullable: True |
| contextCondition | It expresses the limits within which the ContextAttribute is allowed/supposed to be allowedValues: "IS\_EQUAL\_TO", "IS\_LESS\_THAN", "IS\_GREATER\_THAN", "IS\_WITHIN\_RANGE", "IS\_OUTSIDE\_RANGE, "IS\_ONE\_OF", "IS\_EQUAL\_TO\_OR LESS\_THAN", "IS\_EQUAL\_TO\_OR\_GREATER\_THAN", "IS\_NOT\_ONE\_OF","IS\_ALL\_OF" | type: Enummultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: "is equal to"isNullable: False |
| contextValueRange | It describes the range of values that applicable to the ContextAttribute and the ContextCondition.AllowedValue: depends on the contextConditionThe value will be a single value when the contextCondition is either "IS\_EQUAL\_TO", "IS\_LESS\_THAN", "IS\_GREATER\_THAN", "IS\_EQUAL\_TO\_OR\_LESS\_THAN", "IS\_EQUAL\_TO\_OR\_GREATER\_THAN". The value will be a pair of values when the contextCondition is either "IS\_WITHIN\_RANGE", "IS\_OUTSIDE\_RANGE"The value will be a list when the contextCondition is "IS\_ONE\_OF", "IS\_NOT\_ONE\_OF","IS\_ALL\_OF".See NOTE 1. | type: ValueRangeTypemultiplicity: 1..\*isOrdered: False isUnique: TruedefaultValue: NullisNullable: True |
| intentPriority | It expresses the priority of the stated intent within an MnS consumer. AllowedValue: values in the range [1-100] where 1 indicates the highest priority and 100 indicates the lowest priority.NOTE: The handing of the priorities across MnS consumers is left to implementation  | type: integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 1isNullable: False |
| geoArea | It describes a geographical area defined in 3GPP TS 28.622[6].AllowedValue: As defined by the data type | type: GeoAreamultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: True |
| pLMNId | It describes the information of a PLMN identification defined in 3GPP 28.658[10]AllowedValue: As defined by the data type | type: PLMNIdmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: True |
| dateTime | It describes the information of a date time defined in 3GPP TS 28.622[6].AllowedValue: As defined by the data type | type: DateTimemultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: True |
| timeWindow | It describes the information of a time window (including startTime, endTime) defined in 3GPP TS 28.622[6].AllowedValue: As defined by the data type | type: TimeWindowmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: True |
| geoCoordinate | It describes the information of a geoCoordinate defined in 3GPP TS 28.622[6].AllowedValue: As defined by the data type | type: GeoCoordinatemultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: True |
| frequency | It desribes the RF reference frequency (i.e. Absolute Radio Frequency Channel Number) and/or the frequency operating band used for a given direction (UL or DL) in FDD or for both UL and DL directions in TDD.AllowedValue: As defined by the data type | type: Frequencymultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: True |
| arfcn | It desribes the RF reference frequency (i.e. Absolute Radio Frequency Channel Number).Allowed Value:For NR, see TS 38.104 [8] clause 5.4.2.1.For EUTRAN, see TS 36.104 [14] clause 5.7.3. | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: True |
| freqband | It desribes the the frequency operating band.Allowed Value:For NR, see TS 38.104 [8] clause 5.4.2.3.For EUTRAN, see TS 36.104 [14] clause 5.7.3. | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: True |
| uEGroup | It describes the information of a UE Group (represented by specific 5QI, specific S-NSSAI, or a specific combination of S-NSSAI and 5QI).AllowedValue: As defined by the data type | type: UEGroupmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: True |
| fiveQI | It describes the information of a 5QI defined in 3GPP TS 28.541[5].AllowedValue: 0 - 255 | type: integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: True |
| sNSSAI | It describes the information of a S-NSSAI defined in 3GPP TS 28.541[5].AllowedValue: As defined by the data type | type: S-NSSAImultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: True |
| intentAdminState | It describes the intent administrative state, which enables the MnS consumer to suspend an intent or cancel the suspension for a suspended intent. A suspended intent means this intent is not considered for fulfilmentallowedValues: "ACTIVATED", "DEACTIVATED" | type: Enummultiplicity: 1isOrdered: N/A isUnique: N/AdefaultValue: "ACTIVATED"isNullable: False |
| intentReference | It indicates the associated intent instanceallowedValues: Not Applicable | type: DNmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| intentReportReference | It indicates the associated intent report instance(s)allowedValues: Not Applicable | type: DNmultiplicity: \*isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| observationPeriod | It represents the observation period of the fulfilmentInfo for corresponding ExpectationTargets, IntentExpectations and Intent. At the end of the observation period, the corresponding fulfilment info is updated in the intent report. The observation period can be assigned by MnS consumer through requesting the MnS producer to set attribute "observationPeriod". MnS producer also can assign the observation period if MnS consumer didn’t assign it.The observation time is expressed in seconds.allowedValues: Not Applicable | type: Integermultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| intentFulfilmentReport | It describes the fulfillment information which is reported for the associated intent instance.allowedValues: Not Applicable | type: IntentFulfilmentReportmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| intentConflictReports | It describes the conflict information which is reported for associated intent instance if needed.allowedValues: Not Applicable | type: IntentConflictReportmultiplicity: \*isOrdered: FalseisUnique: TRUEdefaultValue: NoneisNullable: False |
| conflictId | It is used to identify the detected conflict within an IntentReport instance.allowedValues: Not Applicable | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| conflictType | It describes the type of intent conflict.allowedValues: INTENT\_CONFLICT, EXPECTATION\_CONFLICT, TARGET\_CONFLICT | type: Enummultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| conflictingIntent | It describes the DN of the conflicting intentallowedValues: Not Applicable | type: DNmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| conflictingExpectation | It describes the expectationId of the conflicting IntentExpectation within an Intent.allowedValues: Not Applicable | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| conflictingTarget | It describes the targetName of the conflicting ExpectationTarget within an IntentExpectation.allowedValues: Not Applicable | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| recommendedSolutions | It describes the action recommended by the MnS producer to be undertaken by the MnS consumer to resolve intent conflict. The recommended solution applies only for the specific intent whose intent report contains this attribute.allowedValues: "MODIFY", "DELETE" | type: ENUMmultiplicity: 1isOrdered: FalseisUnique: TruedefaultValue: None isNullable: False |
| expectationFulfilmentResults | It includes the expectationFulfilmentInfo and targetFulfilmentResults for each IntentExpectation. The expectationFulfilmentInfo describes status of fulfilment of an intentExpectation and the related reasons for infeasible status.allowedValues: Not Applicable | type: ExpectationFulfilmentResultmultiplicity:1 \*isOrdered: FalseisUnique: TRUEdefaultValue: NoneisNullable: False |
| targetFulfilmentResults | It includes targetFulfilmentInfo and targetAchievedValue for each ExpectationTarget. The targetFulfilmentInfo describes status of fulfilment of an expectationTarget and the related reasons for infeasible status. The targetAchieveValue describes current performance value for the ExpectationTarget.allowedValues: Not Applicable | type: TargetFulfilmentResultmultiplicity: \*isOrdered: FalseisUnique: TRUEdefaultValue: NoneisNullable: False |
| targetAchievedValue | It describes the value that has been achieved for the expectation target at the time at which the report is generated.allowedValues: Not Applicable | type: Numbermultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| intentFeasibilityCheckReport | It describes the intent feasibility check information which is reported if needed.allowedValues: Not Applicable | type: IntentFeasibilityCheckReportmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| feasibilityCheckResult | It describes the result of intent fulfilment feasibility checkallowedValues: FEASIBLE, INFEASIBLE | type: Enummultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| infeasibilityReasons | It describes the reason (e.g. invalid intent expression, the intent conflict) of the result of intent fulfilment feasibility check is INFEASIBLEEditor’s Note: the ENUM value for infeasibilityReason is FFS. | type: ENUMmultiplicity: 1..\*isOrdered: FalseisUnique: TruedefaultValue: None isNullable: False |
| intentHandlingCapabilityList | It describes the list of expectation object information and expectation target information which can be supported by intent handling function.allowedValues: Not Applicable | type: IntentHandlingCapabilitymultiplicity: 1..\*isOrdered: FalseisUnique: TruedefaultValue: None isNullable: False |
| intentHandlingCapabilityId | A unique identifier of property of intent handling capability should be supported by the intent handling function of MnS producer.allowedValues: Not Applicable | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| supportedExpectationObjectType | It describes the expectation object type which can be supported by a specific intent handling function of MnS producer.allowedValues: objectType defined in clause 6.2.1.3.2. | type: Enummultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| supportedExpectationTargetNames | It describes the supported expectation targets for the supported expectation object type.allowedValues: targetName defined in clause 6.2.1.3.3 | type: Stringmultiplicity: 1..\*isOrdered: FalseisUnique: TruedefaultValue: None isNullable: False |
| lastUpdatedTime | It describes the time for the latest update of the IntentReport Instance. | type: DateTimemultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: None isNullable: False |
| ContextSelectivity | It expresses the may in which all or a subset of the expectationTargets may be applied.AllowedValue: "ALL\_OF", "ONE\_OF", "ANY\_OF" | type: Enummultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: "ALL\_OF"isNullable: False |
| intentPreemptionCapability | It describes the pre-emption capability. The attribute is used by MnS producer to decide the target of intent deletion or intent modificationAllowedValue: TRUE,FALSE | type: Enummultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: "FALSE"isNullable: False |
| NOTE: For "IS\_ALL\_OF", the value shall be a match of the entire list. |

***End of Second change***