**3GPP TSG SA WG5 Meeting #141e S5-221384**

**Online, , 15 Nov 2021- 24 Nov 2021**

**Source: Samsung**

**Title: pCR 28.312 ServiceDeploymentExpectation definition**

**Document for: Approval**

**Agenda Item: 6.4.10**

# 1 Decision/action requested

***The group is asked to discuss and approve the proposals.***

# 2 References

None

# 3 Rationale

This contribution provides the concrete ServiceDeploymentExpectation definition.

# 4 Detailed proposal

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| --- |
| **1st modified section** |

#### 6.4.1 Service Support Expectation

6.4.1.1 Definition

Service Support Expectation is an IntentExpectation which can be used to represent MnS consumer's expectations for service deployment.

The Service Support Expectation is defined utilizing the constructs of the generic IntentExpectation <<dataType>> with set of allowed values and concrete dataTypes specified.

Following are the specific allowed values when implemented the IntentExpectation for Service Support Expectation

|  |  |
| --- | --- |
| Attribute | Allowed Values |
| ObjectType (CM) | ServiceSupport |
| objectInstance (CM) | DN of the ServiceSupport |

Note: following are the qualifier description for attribute "objectType" and "objectInstance":

- In case of the intent expectation is not for a specific service instance or/and MnS consumer have no knowledge of the DN of this service instance, the attribute "objectType" needs to be specified;

- In case of the intent expectation is for a specific service instance and MnS consumer have the knowledge of the DN of this service instance, the attribute "objectInstance" needs to specified.

#### 6.4.1.2 ObjectContexts

Following provides the concrete ObjectContexts for Service Support Expectation based on the common structure of ObjectContext. The properties of the attributes in the following table should be same with properties of ObjectContexts defined in clause 6.2.1.3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute Name | Support Qualifier | isReadable | isWritable | isInvariant | isNotifyable |
| edgeIdenfiticationId | CM | T | T | F | F |
| edgeIdenfiticationLoc | CM | T | T | F | F |

Note: following are the qualifier description for attribute "edgeIdentificationId" and " edgeIdentificationLoc":

- In case of the Service deployment is needed at a particular edge data network, the attribute " edgeIdentificationId " needs to be specified;

- In case of the Service deployment is needed at a particular location, the attribute "edgeIdentificationLoc" needs to be specified;

6.4.1.2 ExpectationTargets

Following provides the concrete ExpectationTargets for Service Support Expectation based on the common structure of ExpectationTarget. The attribute properties defined in the table below should be same with the properties defined for ExpectationTargets in section 6.2.1.3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Support Qualifier** | **isReadable** | **isWritable** | **isInvariant** | **isNotifyable** |
| dlThptPerUE | O | T | T | F | F |
| UlThptPerUE | O | T | T | F | F |
| dLLatency | O | T | T | F | F |
| uLLatency | O | T | T | F | F |

Editors Note: the target defined are not the complete list. Definition of more targets is FFS.

6.4.1.2 ExpectationContext

Following provides the concrete ExpectationTargets for Service Deployment Expectation based on the common structure of ExpectationTarget. The attribute properties defined in the table below should be same with the properties defined for ExpectationTargets in section 6.2.1.3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Support Qualifier** | **isReadable** | **isWritable** | **isInvariant** | **isNotifyable** |
|  |  |  |  |  |  |
| serviceStartTime | O | T | T | F | F |
| serviceEndTimeTarget | O | T | T | F | F |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| coverageAreaTAList | O | T | T | F | F |
| uEMobilityLevel | O | T | T | F | F |
| resourceSharingLevel | O | T | T | F | F |
| maxNumberofUEs | O | T | T | F | F |
| activityFactor | O | T | T | F | F |
| uESpeed | O | T | T | F | F |

Editors Note: the context defined are not the complete list. Definition of more targets is FFS.

#### 6.2.1.4 Attribute definition

| Attribute Name | Documentation and Allowed Values | Properties |
| --- | --- | --- |
|  |  |  |
| serviceStartTime | This describes the start time at which the service shall be available. This contributes to the selection of the appropriate edge data network to be used for service deployment.  Following are the allowed values:  -contextAttribute: "serviceStartTime"  -contextCondition: "is equal than"  -contextValueRange: start time stamp | type: Context  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: False  isNullable: True |
| serviceEndTime | This describes the end time after which the service shall not be available. This contributes to the selection of the appropriate edge data network to be used for service deployment.  Following are the allowed values:  -contextAttribute: "serviceEndTime"  -contextCondition: "is equal than"  -contextValueRange: end time stamp | type:Context  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: False  isNullable: True |
| edgeIdenfiticationId | This identifies the edge network where the service need to be deployed. This should be used when the edge identification is known to the consumer  Following are the allowed values:  -contextAttribute: "edgeIdentificationId"  -contextCondition: "is equal than"  -contextValueRange: EDNidentifier as defined in 28.538. | type: Context  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: False  isNullable: True |
| edgeIdenfiticationLoc | This identifies the location where the service need to be deployed. This should be used when the edge identification is not known to the consumer  Following are the allowed values:  -contextAttribute: "edgeIdentificationTarget"  -contextCondition: "is equal than"  -contextValueRange: geographical target location. This will take a form of either single latitude & longitude or a TAI | type: Context  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: False  isNullable: True |
| dlThptPerUE | See clause 6.3.1 of TS 28.541 | type: ExpectationTarget  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: False  isNullable: True |
| UlThptPerUE | See clause 6.3.1 of TS 28.541 | type: ExpectationTarget  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: False  isNullable: True |
| dLLatency | See clause 6.3.1 of TS 28.541 | type: ExpectationTarget  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: False  isNullable: True |
| uLLatency | See clause 6.3.1 of TS 28.541 | type: ExpectationTarget  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: False  isNullable: True |
| coverageAreaTAList | See clause 6.3.1 of TS 28.541 | type: Context  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: False  isNullable: True |
| uEMobilityLevel | See clause 6.3.1 of TS 28.541 | type: Context  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: False  isNullable: True |
| resourceSharingLevel | See clause 6.3.1 of TS 28.541 | type: Context  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: False  isNullable: True |
| maxNumberofUEs | See clause 6.3.1 of TS 28.541 | type: Context  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: False  isNullable: True |
| activityFactor | See clause 6.3.1 of TS 28.541 | type: Context  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: False  isNullable: True |
| uESpeed | See clause 6.3.1 of TS 28.541 | type: Context  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: False  isNullable: True |

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| **End of 1st modified section** |