**3GPP TSG SA WG5 Meeting #139e S5-221289**

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

**Source: Samsung**

**Title: pCR 28.538 EESFunction definition**

**Document for: Approval**

**Agenda Item: 6.4.18**

# 1 Decision/action requested

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

# 2 References

None

# 3 Rationale

This contribution defined the EASFunction IOC.

# 4 Detailed proposal

|  |
| --- |
| **First modification** |

# 6 Edge NRM

*Editors Note: This section will contain the edge related NRM or just the reference to it in 28.541.*

## 6.1 Information Model definitions for Edge NRM

### 6.1.1 Imported information entities and local labels

|  |  |
| --- | --- |
| Label reference | Local label |
| TS 28.622 [4], IOC, Top | Top |
| TS 28.622 [4], IOC, SubNetwork | SubNetwork |
| TS 28.622 [4], IOC, ManagedFunction | ManagedFunction |
| TS 28.541 [3], IOC, PCFFunction | PCFFunction |
| TS 28.541 [3], IOC, NEFFunction | NEFFunction |
| TS 28.541 [3], IOC, EP\_N5 | EP\_N5 |
| TS 28.541 [3], IOC, EP\_N33 | EP\_N33 |
| TS 28.541 [3], attribute, tAI | tAI |

## 6.2 Class diagram

### 6.2.1 Relationships

**Figure 6.2.1-2 Edge NRM containment/naming relationship**



**Figure 6.2.1-3 Transport view of EES NRM**



**Figure 6.2.1-4 Transport view of ECS NRM**



**Figure 6.2.1-5 Transport view of EAS NRM**

### 6.2.2 Inheritance



**Figure 6.2.2-1 Edge Inheritance Relationship**

Editor's NOTE 4: Whether EASProfile is dataType or IOC is FFS.

## 6.3 Class definition

6.3.x EESFunction

6.3.x.1 Definition

This IOC represent the properties of a EES in a 3GPP network. For more information about EES, see 3GPP TS 23.558.

6.3.x.2 Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Support Qualifier | isReadable | isWritable | isInvariant | isNotifyable |
| eESIdentifier | M | T | T | F | T |
| eESServingLocation | M | T | T | F | T |
| eesAddress | M | T | T | F | T |
| softwareImageInfo | M | T | T | F | T |
| **Attribute related to role** |  |  |  |  |  |
| eASFunctonRef | M | T | T | F | T |
|  |  |  |  |  |  |

#### 

Editors notes: The list of attributes is not complete.

#### 6.3.x.3 Attribute constraints

#### 6.3.x.4 Notifications

TBD.

### 6.3.y SoftwareImageInfo <<dataType>>

6.3.y.1 Definition

This datatype represents the software image information.

6.3.y.2 Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Support Qualifier | isReadable | isWritable | isInvariant | isNotifyable |
| minimumDisk | M | T | T | F | T |
| minimumRAM | M | T | T | F | T |
| **Attribute related to role** |  |  |  |  |  |
| swImageRef | M | T | T | F | T |

#### 6.3.y.3 Attribute constraints

None.

#### 6.3.y.4 Notifications

TBD

## 6.4 Attribute definition

6.4.1 Attribute Properties

| Attribute Name | Documentation and Allowed Values | Properties |
| --- | --- | --- |
| eESIdentifier | It identifies the EES, see 3GPP TS 23.558. | type: String  multiplicity: 1  isOrdered: N/A  isUnique: True  defaultValue: None  isNullable: False |
| eASFunctionRef | This is the DN of EASFunction.  allowedValues: DN of the EASFunction MOI. | type: DN  multiplicity: 1..\*  isOrdered: N/A  isUnique: True  defaultValue: None  isNullable: False |
| serviceContinuitySupport | This parameter defines whether the EES supports service continuity, see 3GPP TS 23.558 | type: Boolen  multiplicity: 1..\*  isOrdered: N/A  isUnique: True  defaultValue: None  isNullable: False |
| eESservingLocation | It defines the serving location for an EES. | type: ServingLocation  multiplicity: 1..\*  isOrdered: N/A  isUnique: True  defaultValue: None  isNullable: False |
| eesAddress | One or more URLs and/or IP Address(es) of EES(s) (See TS 23.558 [2]).  allowedValues: N/A | type: String  multiplicity: 1..\*  isOrdered: N/A  isUnique: N/A  defaultValue: None  allowedValues: N/A  isNullable: False |
| softwareImageInfo | This refers to thesoftware image information (e.g., software image location, minimum RAM, disk requirements) (see clause 7.1.6.5 in in ETSI NFV IFA-011 [7]). It is defined as a datatype (see clause 6.3.y).  allowedValues: N/A | type: SoftwareImageInfo  multiplicity: 1  isOrdered: N/A  isUnique: True  defaultValue: None  isNullable: False |
| swImageRef | It indicates the reference to the actual software image that is represented by URL (see clause 7.1.6.5 in in ETSI NFV IFA-011 [7]). | type: String  multiplicity: 1  isOrdered: N/A  isUnique: True  defaultValue: None  isNullable: False |
| minimumDisk | It indicates the minimum disk size requirement for the EAS software (see clause 7.1.6.5 in in ETSI NFV IFA-011 [7]).  The unit is Megabyte. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: True  defaultValue: None  isNullable: False |
| minimumRAM | It indicates the minimum RAM size requirement for the EAS software (see clause 7.1.6.5 in in ETSI NFV IFA-011 [7]).  The unit is Megabyte. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: True  defaultValue: None  isNullable: False |