**3GPP TSG-SA5 Meeting #162 *S5-254029***

Goteborg, Sweden, 25 - 29 August 2025

**Source: Huawei**

**Title: pCR TS 28.579** **Update mapping of management service information into service API information**

**Document for: Approval**

**Agenda item: 6.19.21.1**

**Spec: 3GPP TS 28.579**

**Version: 1.0.0**

**Work Item: MExpo**

**Comments**

This pCR proposes to update the mapping of management service information into service API information based on latest version of corresponding SA5 and SA6 specifications.

**Proposed Changes**

\* \* \* First Change \* \* \* \*

6.2.2 Mapping of management service information into service API information

Table 6.2.2-1 presents the attributes of the ServiceAPIDescription data type (see clause 8.2.4.2.2-1 of TS 29.222 [4]) and clarifies which attributes (of the ServiceAPIDescription data type) can be mapped from management service information. Refer to Table 8.2.4.2.2-1 of TS 29.222 [4] for detailed information on the attributes of ServiceAPIDescription data type (e.g., the attribute data type, presence indicator, cardinality, description and applicability information).

**Table 6.2.2-1: Mapping of management service information into ServiceAPIDescription data type attributes**

| **Attribute name** | **Attribute additional information** | **Equivalent MnSInfo IOC attribute/comments** |
| --- | --- | --- |
| apiName | The data type of this attribute is defined as "string" and presence qualifier is defined as "M". | Corresponds to the following MnSInfo IOC attribute: mnsType |
| apiId | The data type of this attribute is defined as "string" and presence qualifier is defined as "O". | N/A |
| aefProfiles | The data type of this attribute is defined as " array(AefProfile)" and presence qualifier is defined as "C". | See Table 6.2.2-2 |
| description | The data type of this attribute is defined as "string" and presence qualifier is defined as "O". | N/A |
| supportedFeatures | The data type of this attribute is defined as "SupportedFeatures" and presence qualifier is defined as "O". | N/A |
| shareableInfo | The data type of this attribute is defined as "ShareableInformation" and presence qualifier is defined as "O". | N/A |
| serviceAPICategory | The data type of this attribute is defined as "string" and presence qualifier is defined as "C". | N/A |
| ccfId | The data type of this attribute is defined as "string" and presence qualifier is defined as "C". | N/A |
| apiSuppFeats | The data type of this attribute is defined as "SupportedFeatures" and presence qualifier is defined as "O". | N/A |
| pubApiPath | The data type of this attribute is defined as "PublishedApiPath" and presence qualifier is defined as "C". | N/A |
| apiProvName | The data type of this attribute is defined as "string" and presence qualifier is defined as "O". | N/A |
| netSliceInfo | The data type of this attribute is defined as "array(NetSliceId)" and presence qualifier is defined as "O". | N/A |

Table 6.2.2-2 presents the attributes contained in the AefProfile data type (see clause 8.2.4.2.4 of TS 29.222 [4]) and clarifies which attributes (of the AefProfile data type) can be mapped from the management service information. See Table 8.2.4.2.4-1 of TS 29.222 [4] for detailed information on the attributes of the AefProfile data type (e.g., the attribute data type, presence indicator, cardinality, description and applicability information).

**Table 6.2.2-2: Mapping of management service information into AefProfile data type attributes**

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute additional information** | **Equivalent MnSInfo IOC attribute/comments** |
| aefId | The data type of this attribute is defined as "string" and presence qualifier is defined as "M". | Corresponds to the AEF identifier provided by the CCF upon MSED registration (see “registration of MSED to the CCF” use case). |
| versions | The data type of this attribute is defined as "array(Version)" and presence qualifier is defined as "M". | See Table 6.2.2-3. |
| protocol | The data type of this attribute is defined as "Protocol" and presence qualifier is defined as "O". | Only "HTTP\_1\_1" and "HTTP\_2" values are applicable. |
| dataFormat | The data type of this attribute is defined as "DataFormat" and presence qualifier is defined as "O". | Only applicable value is “JSON”. |
| securityMethods | The data type of this attribute is defined as "array(SecurityMethod)" and presence qualifier is defined as "O". | Only applicable value is "OAUTH" (i.e. TLS with OAuth token). |
| grantTypes | The data type of this attribute is defined as "array(OAuthGrantType)" and presence qualifier is defined as "C". | N/A |
| domainName | The data type of this attribute is defined as "string" and presence qualifier is defined as "O". | N/A |
| interfaceDescriptions | The data type of this attribute is defined as "array (InterfaceDescription)" and presence qualifier is defined as "O". | See Table 6.2.2-5. |
| aefLocation | The data type of this attribute is defined as "AefLocation" and presence qualifier is defined as "O". | N/A |
| serviceKpis | The data type of this attribute is defined as "ServiceKpis" and presence qualifier is defined as "O". | N/A |
| ueIpRange | The data type of this attribute is defined as "IpAddrRange" and presence qualifier is defined as "O". | N/A |

Table 6.2.2-3 presents the attributes of the Version data type (see clause 8.2.4.2.5 of TS 29.222 [4]) and clarifies which attributes (of the Version data type) can be mapped from management service information. See Table 8.2.4.2.5-1 of TS 29.222 [4] for detailed information on the attributes of the Version data type (e.g., the attribute data type, presence indicator, cardinality, description and applicability information).

**Table 6.2.2-3: Mapping of management service information into Version datatype attributes**

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute additional information** | **Equivalent MnSInfo IOC attribute/comments** |
| apiVersion | The data type of this attribute is defined as "string" and presence qualifier is defined as "M". | Corresponds to the following MnSInfo IOC attribute: mnsVersion |
| expiry | The data type of this attribute is defined as "DateTime" and presence qualifier is defined as "O". | N/A. |
| resources | The data type of this attribute is defined as "array(Resource)" and presence qualifier is defined as "O". | See Table 6.2.2-4.  Each Resource corresponds to an MOI accessed through this MnS. It is up to the network operator’s discretion to determine the managed objects (represented by their IOCs/MOIs) to be published. |
| custOperations | The data type of this attribute is defined as "array(CustomOperation)" and presence qualifier is defined as "O". | N/A |

Table 6.2.2-4 presents the attributes of the Resource data type (see clause 8.2.4.2.6 of TS 29.222 [4]) and clarifies which attributes (of the Resource data type) can be mapped from management service information. See Table 8.2.4.2.6-1 of TS 29.222 [4] for detailed information on the attributes of the Resource data type (e.g., the attribute data type, presence indicator, cardinality, description and applicability information).

**Table 6.2.2-4: Mapping of management service information into Resource data type attributes**

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute additional information** | **Equivalent MnSInfo IOC attribute/comments** |
| resourceName | The data type of this attribute is defined as "string" and presence qualifier is defined as "M". | IOC name of the MOI. |
| commType | The data type of this attribute is defined as "CommunicationType" and presence qualifier is defined as "M". | Only "REQUEST\_RESPONSE" value is applicable for SA5 MnS of type Provisioning. |
| uri | The data type of this attribute is defined as "string" and presence qualifier is defined as "M". | Corresponds to the URI LDN of the MOI to be published (see clause 4.4.2 of TS 32.158[6]). |
| custOpName | The data type of this attribute is defined as "string" and presence qualifier is defined as "O". | N/A |
| custOperations | The data type of this attribute is defined as "array(CustomOperation)" and presence qualifier is defined as "O". | N/A |
| operations | The data type of this attribute is defined as "array(Operation)" and presence qualifier is defined as "C". | This attribute represents an array of HTTP methods applicable for the published MOI. It is up to the network operator’s discretion to determine the allowable HTTP operations on an IMOI to be published. |
| description | The data type of this attribute is defined as "string" and presence qualifier is defined as "O" (see table 8.2.4.2.6-1 of TS 29.222 [4] ). | N/A |

Table 6.2.2-5 presents the attributes of the InterfaceDescription data type (see clause 8.2.4.2.3 of TS 29.222 [4]) and clarifies which attributes (of the InterfaceDescription data type) can be mapped from the management service information. See Table 8.2.4.2.3-1 of TS 29.222 [4] for the data type, presence indicator, cardinality, description and applicability information for attributes of InterfaceDescription.

**Table 6.2.2-5: Mapping of management service information into InterfaceDescription datatype attributes**

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Attribute additional information** | **Equivalent MnSInfo IOC attribute/comments** |
| ipv4Addr | The data type of this attribute is defined as "Ipv4Addr" and presence qualifier is defined as "C". | N/A |
| ipv6Addr | The data type of this attribute is defined as "Ipv6Addr" and presence qualifier is defined as "C". | N/A |
| fqdn | The data type of this attribute is defined as "Fqdn" and presence qualifier is defined as "C". | Corresponds to the URI-DN-prefix of the MOI to be published. The FQDN of the MOI can be constructed from the DN prefix as detailed in clause 4.2.3 of TS 32.158 [6]. |
| port | The data type of this attribute is defined as "Port" and presence qualifier is defined as "O". | N/A |
| apiPrefix | The data type of this attribute is defined as "string" and presence qualifier is defined as "O". | Corresponds to the optional “root” path component of the MOI to be published (see clause 4.4.2 of TS 32.158 [6]). |
| securityMethods | The data type of this attribute is defined as "array(SecurityMethod)" and presence qualifier is defined as "O". | Only applicable value is "OAUTH" (i.e. TLS with OAuth token). |
| grantTypes | The data type of this attribute is defined as "array(OAuthGrantType)" and presence qualifier is defined as "O". | N/A |

With this mapping, management service(s) can be published as service API(s) described by the corresponding ServiceAPIDescription datatype(s).

\* \* \* End of Changes \* \* \* \*