**3GPP TSG-SA5 Meeting #157 *S5-246039d2***

Hyderabad, India, 14 - 18 October 2024 Revision of S5-245828

**Source: Ericsson España S.A.**

**Title: pCR TR 28.879 Publishing UC - updates on description and requirements**

**Document for: Approval**

**Agenda Item: 6.19.21**

# 1 Decision/action requested

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

# 2 References

[1] 3GPP TR 28.879: " Study on OAM for service management and exposure to external consumers".

[2] S5-243252: “Rel-19 pCR TR 28.879 Add use case for publishing management services to the CCF”

# 3 Rationale

This pCR aims to update the description and requirements for the publishing use case (use case #2), by:

* Providing further details on the workflow of the use case, clarifying the decision variables on the operator side and the issues that deserve attention.
* Remove references to potential solutions on who is eligible to perform APF functionality; these solutions are to be discussed in the solutions clause, not in the description clause.
* Re-wording existing requirements and specifying two additional ones.

# 4 Detailed proposal

It is proposed to make the following changes in the latest version of TR 28.879 [1].

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| **Begin Change** |

### 5.1.2 Use case #2: Publishing of management services to the CCF

#### Description

MnS gives access to a set of resources. These resources are managed objects, i.e. IOC instances.

Upon registration of MnS producer into the CAPIF, then it can be decided, for a given MnS:

* which resources of this MnS will be made available for external consumption. These resources are referred to as exposed MnS resources.
* whether exposed MnS resources will be offered through one or more service APIs. This decision (which exposed MnS resources are to be accessed by which service APIs) is at operator discretion. It can occur that the operator decides to use one single service API to convey all the exposed MnS resources; conversely, the operator might decide to split exposed MnS resources into two or more service APIs.

The information resulting from this decision needs to be published onto CCF, by making use of the “CAPIF\_Publish\_Service\_API” (see clause 5.3 in 3GPP TS 29.222 [13]). This API allows the API Publishing Function (APF) to publish service API information onto the CCF (see clause 6.3.5 in 3GPP TS 23.222 [5]) so that it can later be used by the external MnS consumers to discover and subsequently invoke the MnS. This information is represented with "ServiceAPIDescription" data type (see clause 8.2.4.2.2 in 3GPP TS 29.222 [13]).

“ServiceAPIDescription” data type contains attributes that need to be populated using MnS related information. The MnSInfo IOC (see clause 4.3.42 in 3GPP TS 28.622 [3]), which represents an available MnS, contains part of this information. The MnS producer posts and manages MnSInfo instances into MnSRegistry IOC (see clause 4.3.42 in 3GPP TS 28.622 [3]).

For this to work, there is a need to ensure MnSInfo IOC can be used to populate needed attributes in “ServiceAPIDescription” data type. This mapping is conducted within 3GPP management system.

Once this mapping is done, the APF can invoke “CAPIF\_Publish\_Service\_API” over the CAPIF-4 interface (see clause 6.4.7 in 3GPP TS 23.222 [5]).

#### 5.1.2.2 Potential requirements

**PREQ-FS\_MExpo-Pub-01:** The 3GPP management system shall have the capability to map management services information (described by the MnSInfo IOC) into service API information (described by the CAPIF ServiceAPIDescription information element).

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| **End Change** |