**3GPP TSG-SA5 Meeting #158 *S5-247133d1***

**, , - Revision of S5-246518**

**Source: Ericsson España S.A.**

**Title: pCR TR 28.879 Discovery UC - updates**

**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".

# 3 Rationale

This pCR aims to update the description and requirements for the discovery UC (use case #4).

# 4 Detailed proposal

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

|  |
| --- |
| **Begin Change** |

### 5.1.3 Use case #3: Configuring discovery policy information for an external MnS consumer

#### 5.1.3.1 Description

One or more API invokers may want access to published service APIs. For an API invoker to become a recognized user of the CAPIF, there are two stages:

* API invoker enrolment. In this first stage, a subscription for this API invoker is created, based on service agreement between the CAPIF provider and the API invoker (see clause 5.1 of TS 23.222 [5]). This subscription defines the list of published service APIs that the API invoker can discover and access later, together with SLA related to API invocations (e.g., quota, throttling). This subscription allows generating an onboarding credential for the API invoker is created. This credential is sent together with CCF details (address, root CA certificate) to the API invoker. As noted in clause 6.1 of TS 33.122 [14], these artefacts will be required by API invoker to initiate the onboarding stage.
* API invoker onboarding. In this second stage, the API invoker onboards itself at the CCF. To that end, the API invoker sends an onboarding request to the CCF (see clause 8.1 of TS 23.222 [5]) over CAPIF-1e interface. This request is sent using CAPIF\_API\_Invoker\_Onboarding\_API (see clause 5.5.2.2 of TS 29.222 [13]), with input information represented with APIInvokerEnrolmentDetails data type (see clause 8.4.2.2.3.1 in TS 29.222 [13]). Successful onboarding results in CCF provisioning API invoker profile (which includes identity for the API invoker and information required for the CCF to authenticate and authorize API invoker on subsequent CAPIF-1e interactions) and creating the list of service APIs that the CCF authorizes the API invoker to access (based on the subscription created during the API invoker enrolment).

Upon completion of these two stages, the API invoker is a recognized CAPIF user and can proceed with the discovery. For discovery, the API invoker sends a request to the CCF (see clause 8.7 of TS 23.222 [5]) using CAPIF\_Discover\_Service\_API (see clause 8.8 of TS 29.222 [13]). This request includes the API invoker identifier and query information.

As noted in clause 8.7.3 of TS 23.222 [5], the discovery procedure requires the fulfilment of two pre-conditions. On the one hand, that the API invoker is onboarded and has received an API invoker identity; this is needed for the CCF to authenticate the API invoker on CAPIF-1e interface. On the other hand, that the CCF is configured with a discovery policy information; this is needed for CCF to perform filtering on service APIs information which matches the discovery criteria. For further information on discovery policy information, see clause 8.7.3 of TS 23.222 [5].

It is also worth noting that the discovery is performed at Service API level. The atomic information used both by API invoker (when including the query information in the discovery request) and the CCF (when applying the discovery policy information) is service API, not service API resource. Because of this, and because discovery only implies interaction over CAPIF-1e interface, there is no impact on 3GPP management system for the discovery use case.

#### 5.1.3.2 Potential requirements

There are no requirements impacting 3GPP management system for this use case.

#### 5.1.3.3 Potential solutions

There are no solutions available for this use case.

#### 5.1.3.4 Evaluation of potential solutions

There are no solution evaluations available for this use case.

|  |
| --- |
| **End Change** |