**3GPP TSG-SA WG6 Meeting #61 S6-242333**

**Jeju, Republic of Korea 20th – 24th May 2024 (revision of S6-242041)**

**Source: ZTE Corporation**

**Title: New Solution for KI#1: Resource Owner Consent Revocation**

**Spec: 3GPP TR 23.700-22 v0.2.0**

**Agenda item: 8.7**

**Document for: Approval**

**Contact: Yang Li (li.yang1226@zte.com.cn)**

**1. Introduction**

The Key issue 1 includes the following open issues:

|  |
| --- |
| 1. How consent of the resource owner can be managed through communication between the resource owner and authorization function in the CAPIF core function
 |

This paper provides a new solution related to the management of resource owner consent.

**2. Reason for Change**

In current specification, the consent of resource assess will only be requested by API invoker before service API invocation procedure. However, the scenario where the resource owner's consent is revoked after the API invoker obtains it has not been considered. To support the resource owner consent management, a procedure of resource owner consent revocation is proposed in this paper.

**3. Conclusions**

<Conclusion part (optional)>

**4. Proposal**

It is proposed to agree the following changes to 3GPP TR 23.700-22.

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

## 6.1 Mapping of solutions to key issues

Table 6.1-1 Mapping of solutions to key issues

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | KI #1 | KI #2 | KI #3 | KI #4 | KI #5 | KI #6 | KI #7 |
| Sol #1 |  |  | X |  |  |  |  |
| Sol #2 | X |  |  |  |  |  |  |
| Sol #3 | X |  |  |  |  |  |  |
| Sol #4 |  |  |  | X |  |  |  |
| Sol #5 |  |  |  |  | X |  |  |
| Sol #6 | X |  |  |  |  |  |  |

\* \* \* 2nd Change (all texts are new) \* \* \* \*

## 6.x Solution #x: Resource Owner Consent Revocation

### 6.x.1 Solution description

#### 6.x.1.1 General

This solution is for Key issue #1 to manage the resource owner consent.

In current specification, the consent of resource assess will only be requested by API invoker before service API invocation procedure. However, the scenario where the resource owner's consent is revoked after the API invoker obtains it has not been considered (e.g., for a certain API invoker, the location permission may change from allowed to not allowed.). To support the resource owner consent revocation a procedure of resource owner consent revocation is needed.

#### 6.x.1.2 Procedure for resource owner consent revocation

Pre-condition:

1. The resource owner can communicate with the API invoker.
2. The service API access requires obtaining consent from resource owner.
3. The API invoker has obtained authorization from resource owner.



Figure 6.x.1.2-1: Procedure for resource owner consent invocation

1. The resource owner function sends a resource owner consent revocation request to CAPIF core function/Authorization function in order to provide resource owner revocation information.
2. The CAPIF core function/Authorization function processes the request and sends a revocation response to the resource owner function.
3. The CAPIF core function/Authorization function sends a resource owner consent revocation notification to the related API invoker.

Note: The detailed procedure to process the resource owner consent revocation notification by the API invoker is in the scope of SA3.

### 6.x.2 Architecture Impacts

Editor's note: This clause provides the architecture impacts of the solution and possible new SA6 capabilities and interfaces.

### 6.x.3 Corresponding APIs

Editor's note: This clause provides the corresponding APIs for supporting the solution.

### 6.x.4 Solution evaluation

Editor's note: This clause provides an evaluation of the solution. The evaluation should include the descriptions of the impacts to existing architectures.

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