**3GPP TSG-SA WG6 Meeting #49-e S6-221136**

**e-meeting, 16th – 25th May 2022 (revision of S6-22xxxx)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.558** | **CR** | **0103** | **rev** | **-** | **Current version:** | **17.3.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Solve EN in ACR | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | EDGEAPP | | | | |  | ***Date:*** | | | 2022-04-29 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***Release:*** | | | Rel-17 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The existing EN for ACR co-existence can be removed. The related handling is part of the Rel-18 eEDGEAPP study.  In addition, cl.8.8.2.5 has EN:  Editor's note: Usage of network path information for the scenarios in clause 8.8.2.5 is FFS.  This EN was included for a long time and removal of such EN doesn’t affect the functionality in cl.8.8.2.5. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add a NOTE for ACR scenario combinations.  Remove EN in cl.8.8.2.5. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Editor notes remain in the TS (within SA6 scope). | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 8.8.2.1, 8.8.2.5 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **N** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **N** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **N** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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

#### 8.8.2.1 General

ACR functionality can be implemented flexibly, and may be focused either in the EEC or in the EAS/EES. The scenarios in this clause are different with regards to

a) whether the EEC is involved in the detection phase and decision phase or detection and decision involve the S-EAS or S-EES only;

b) whether T-EAS discovery is performed between EEC and T-EES or between S-EES and T-EES;

c) whether the EEC sends an Application Context Relocation Request towards the S-EES, the T-EES or none at all; and

d) whether the Application Context is pushed from the S-EAS to the T-EAS or pulled by the T-EAS from S-EAS.

Generally, AC, EEC, EES and EAS implementations will support only a subset of these scenarios; therefore, during EAS discovery and T-EAS discovery the S-EES and T-EES shall take the ACR scenarios supported by the AC and EEC and any preferences indicated by the EEC for specific ACR scenarios into account when identifying the EAS(s) for the EAS discovery response, as specified in clause 8.5.2.2 and clause 8.8.3.2, or for the EAS discovery notification, as specified in clause 8.5.2.3.3.

Furthermore, when the EEC performs EAS discovery or T-EAS discovery, the EES or T-EES shall inform the EEC about the ACR scenarios which are supported by the EAS or T-EAS, respectively.

The EEC shall take the information about supported ACR scenarios provided by the ECS, S-EES and T-EES into account when selecting an EES for EAS discovery or T-EAS discovery, respectively, and when selecting an EAS for edge services.

For clarity of description, scenarios in clauses 8.8.2.2, 8.8.2.3, 8.8.2.4, 8.8.2.5 and 8.8.2.6 describe the relocation of a single application context to a new EAS. Multiple ACs can be active in the UE and relocation can be executed for each AC (or group of ACs) that requires service continuity.

For each of the scenarios in clauses 8.8.2.2, 8.8.2.3, 8.8.2.4, 8.8.2.5 and 8.8.2.6, ACR for one or more ACs can result in the same EEC receiving services from more than one EES, which have the registration for the required EASs that can serve the ACs. In scenarios described in clause 8.8.2.4 and clause 8.8.2.5, a successful EEC context relocation procedure enables the EEC to become implicitly registered to the target EES without the EEC sending an EEC registration request.

NOTE: Relocation of an application session (AC to EAS communication) can be triggered by different detection entities (e.g. EAS, EEC) simultaneously. Handling multiple ACR scenarios in parallel are out of scope of this release.

\* \* \* Next Change \* \* \* \*

#### 8.8.2.5 S-EES executed ACR

Figure 8.8.2.5-1 illustrates the S-EES detecting, deciding and executing ACR from the S-EAS to the T-EAS. This may include EELManagedACR by S-EES when initiated by S-EAS as per clause 8.8.3.6.

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