**3GPP TSG-CT WG3 Meeting #134 *C3-242482***

**Changsha, China, 15th – 19th April, 2024 (Revision of C3-242401)**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.558** | **CR** | **0176** | **rev** | **1** | **Current version:** | **18.5.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | Updates to EAS Profile | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson, Samsung | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | EDGEAPP\_Ph2 | | | | |  | ***Date:*** | | | 2024-03-28 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19) Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | TS 23.558 clause 8.2.4 EAS Profile has been updated with new table note for the allowed MNO information according to the approved CR 0567, hence needs to be updated accordingly in this TS. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Clause 8.1.5.2.3🡪Added table note for the "allowedPlmnId" attribute in the EASProfile data type to align with stage 2 requirement.  Clause 8.1.7🡪Adding support of allowed MNO information in the EdgeApp\_2 feature description. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Not fully align with stage 2 requirements on the allowed MNO information in the EAS Profile. EdgeApp\_2 feature description missing support allowed MNO information in the EAS Profile in the Eees\_EASRegistration API | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 8.1.5.2.3, 8.1.7 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | | This CR does not impact the OpenAPI file. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\*\*\* 1st Change \*\*\*

##### 8.1.5.2.3 Type: EASProfile

Table 8.1.5.2.3-1: Definition of type EASProfile

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| easId | string | M | 1 | The application identifier of the EAS (e.g. URI, FQDN). |  |
| endPt | EndPoint | M | 1 | Endpoint information (URI, FQDN, IP address) used to communicate with the EAS. This information maybe discovered by EEC and exposed to ACs so that ACs can establish contact with the EAS. |  |
| allowedPlmnId | PlmnIdNid | O | 0..1 | Contains the allowed PLMN ID from which the subscriber can consume the services of the EAS.  (NOTE 4) | EdgeApp\_2 |
| easBdlInfos | array(EASBundleInfo) | O | 1..N | Represents the list of EAS bundle(s) to which the EAS (identified by the "easId" attribute) belongs, and for each one of them, the corresponding EAS bundle information.  (NOTE 3) | EdgeApp\_2 |
| acIds | array(string) | O | 1..N | Identities of the Application Clients that can be served by the EAS |  |
| provId | string | O | 0..1 | Identifier of the ASP that provides the EAS. |  |
| type | EASCategory | O | 0..1 | The EAS type with the 3GPP standardized value set.  (NOTE 1). |  |
| flexEasType | string | O | 0..1 | The EAS type with the flexible value set.  (NOTE 1) |  |
| scheds | array(ScheduledCommunicationTime) | O | 1..N | The availability schedule of the EAS. |  |
| svcArea | ServiceArea | O | 0..1 | The list of geographical and topological areas that the EAS serves. ACs in the UE that are outside the area shall not be served. |  |
| svcKpi | EASServiceKPI | O | 0..1 | Service characteristics provided by the EAS. |  |
| permLvl | array(PermissionLevel) | O | 1..N | Level of service permissions supported by the EAS. |  |
| easFeats | array(string) | O | 1..N | Service specific features supported by the EAS (e.g. single vs multi-player gaming service). |  |
| svcContSupp | array(ACRScenario) | O | 1..N | The ACR scenarios supported by the EAS for service continuity. If this attribute is not present, then the EAS does not support service continuity. |  |
| svcContSuppExt1 | array(EASBundleInfo) | O | 1..N | Represents the information related to the EAS ability to handle bundled EAS ACRs.  This attribute may be present only when the "svcContSupp" attribute is also present.  When this attribute is present, it indicates that the EAS (identified by the "easId" attribute) is able to handle bundled EAS ACRs and contains the information of the EAS bundle(s) for which the EAS is able to handle bundled EAS ACRs. | EdgeApp\_2 |
| transContSupp | TransContSuppDetails | O | 0..1 | Represents the detailed information about the EAS (e.g. SEALDD Server) capability for seamless transport layer service continuity.  If this attribute is not present, then the EAS does not support the seamless transport layer service continuity capability. | SEALDDSupport |
| appLocs | array(RouteToLocation) | O | 1..N | List of DNAI(s) and the corresponding N6 traffic routing information/routing profile ID, associated with the EAS.  It is a subset of the DNAI(s) associated with the EDN where the EAS resides. |  |
| avlRep | DurationSec | O | 0..1 | The period indicating to the EES, how often the EES needs to check the EAS's availability after a successful registration. |  |
| status | string | O | 0..1 | EAS status (e.g. Enabled, Disabled etc.) |  |
| genCtxDur | DurationSec | O | 0..1 | Contains the general context holding time duration, which indicates the time duration during which the EAS holds the application context in case of an ACR for service continuity planning. | EdgeApp\_2 |
| easSyncSupp | boolean | O | 0..1 | Indicates whether the EAS supports content synchronization between EASs.  - When set to "true", it indicates that content synchronization between EASs is supported by the EAS.  - When set to "false", it indicates that content synchronization between EASs is not supported by the EAS.  - The default value when this attribute is omitted is "false". | EdgeApp\_2 |
| NOTE 1: The "flexEasType" attribute and the "type" attribute are mutually exclusive. Either one of them may be provided. The same attribute should be used when this data type is conveyed over the EDGE-1 and EDGE-3 interfaces (i.e. for the Eees\_EASRegistration and the Eees\_EASDiscovery APIs).  NOTE 2: Void.  NOTE 3: Within any instance of the EASBundleInfo data structure used to encode an array element of this attribute, the "easIdsList" attribute may be present only when the "bdlId" attribute is also present and the "bdlType" attribute is set to "PROXY".  NOTE 4: In this release of the specification, this attribute shall include only the MNO information of the leading ECSP in case of edge node sharing scenario. | | | | | |

\*\*\* 1st Change \*\*\*

### 8.1.7 Feature negotiation

General feature negotiation procedures are defined in clause 7.8. Table 8.1.7-1 lists the supported features for Eees\_EASRegistration API.

Table 8.1.7-1: Supported Features

|  |  |  |
| --- | --- | --- |
| **Feature number** | **Feature Name** | **Description** |
| 1 | SEALDDSupport | This feature indicates the support of the SEALDD functionality related enhancements.  The following functionalities are supported:  - Support the EAS capability for seamless transport layer service continuity within the EAS profile. |
| 2 | EdgeApp\_2 | This feature indicates the support of the enhancements to the Edge Applications.  The following functionalities are supported:  - Support of the indication of the general context holding time.  - Support of the EAS bundle functionality.  - Support of the indication of the EAS ability to handle bundled EAS ACRs within the EAS profile.  - Support of allowed MNO information in the EAS Profile. |

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