**3GPP TSG-SA3 Meeting #112 *S3-234197***

**Goteborg, Sweden, 14-18 August 2023** (revision of S3-233842)

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.501** | **CR** | **draftCR** | **rev** | -1 | **Current version:** | **18.2.0** |  |
|  | | | | | | | | |
| *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 | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** | Security of EAS discovery procedure via V-EASDF in roaming Scenario | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | EDGE\_Ph2 | | | | |  | ***Date:*** | | | 2023-07-14 |
|  |  | | | |  | |  | | |  |
| ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | This contribution proposes the draftCR of Security of EAS discovery procedure via V-EASDF in roaming Scenario on TS 33.501 according to the conclusion in the TR 33.739. | | | | | | | | |
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| ***Summary of change:*** | | New changes on security of EAS discovery procedure. | | | | | | | | |
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| ***Consequences if not approved:*** | | Incomplete work for the phase 2 edge features. | | | | | | | | |
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| ***Clauses affected:*** | | T.X (new) | | | | | | | | |
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|  | | **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's revision history:*** | |  | | | | | | | | |

\*\*\* BEGIN of 1st CHANGE \*\*\*

## T.X Security of EAS discovery procedure via V-EASDF in roaming Scenario

Annex P of the present document should be followed, with the following additions, to protect the discovery messages between the UE and the V-EASDF which is used as the DNS server for EAS discovery in the roaming case. If the core network is used to configure the security information, the V-SMF is preconfigured with the V-EASDF security information (credentials to authenticate the V-EASDF, supported security mechanisms, port number, etc.) and provides the security information to the UE as follows:

* In the case of LBO roaming, the V-SMF provides the V-EASDF security information to the UE via PCO.
* In the case of HR with Session Breakout (HR-SBO) roaming scenarios, during the PDU session establishment or modification procedure, the V-SMF provides the V-EASDF security information via Nsmf\_PDUSession\_Create/ Nsmf\_PDUSession\_Update to H-SMF when the V-SMF determines to use a V-EASDF for EAS discovery, and the H-SMF provides the V-EASDF security information to UE via PCO if HR SBO is authorized.

NOTE: The security information of V-EASDF provided to the UE is only related with the VPLMN parameter.

\*\*\* END of 1st CHANGE \*\*\*