**3GPP TSG-SA3 Meeting #112 *S3-234199***

**Goteborg, Sweden, 14-18 August 2023** (revision of S3-233846)

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **33.501** | **CR** | **1741** | **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 canbe 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 CR 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 \*\*\*