**3GPP TSG-CT WG1 Meeting #141eC1-232537**

**Online 17– 21 April 2023**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **23.122** | **CR** | **1089** | **rev** | **-** | **Current version:** | **18.2.0** |  |
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| *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 | **X** | ME | **X** | Radio Access Network |  | Core Network |  |

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| ***Title:***  | Utilization for Threshold value for SENSE feature in the PLMN selection |
|  |  |
| ***Source to WG:*** | LG Electronics |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | SENSE |  | ***Date:*** | 2023-04-10 |
|  |  |  |  |  |
| ***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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** |

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| 3.2.2.1 General (TS22.011)The UE shall utilise all the information stored in the USIM related to network selection, e.g. HPLMN, Operator controlled PLMN Selector list, User Controlled PLMN Selector list, Forbidden PLMN list, Operator controlled signal threshold.4.4.3 PLMN selection (TS23.122)The ME shall utilise all the information stored in the SIM related to the PLMN selection; e.g. "HPLMN Selector with Access Technology", "User Controlled PLMN Selector with Access Technology", "Forbidden PLMNs", "Equivalent HPLMN", see 3GPP TS 31.102 [40]. |

According to the TS22.011 and TS23.122, it is mentioned that the ME shall utilise all the information stored in the USIM related to network selection. TS22.011 mentioned Operator controlled signal threshold per access technology but, TS23.122 didn’t mention that information.

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| In CT6#114 meeting, new EFOCST is introduced by CR#0978 in TS31.102 to store parameters for the "Operator controlled signal threshold per access technology" as defined in 3GPP TS 23.122. |

Therefore, it should be added that EFOCST (Operator Controlled Signaling Threshold per Access Technology) for performing PLMN selection must be utilized. |
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| ***Summary of change:*** | EFOCST (Operator Controlled Signaling Threshold per Access Technology) for performing a PLMN selection is utilized. |
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| ***Consequences if not approved:*** | One USIM information (EFOCST ) is missing to utilize upon performing a PLMN selection. |
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| ***Clauses affected:*** | 3.11 |
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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 ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

\*\*\* First change \*\*\*

## 3.11 Signal level enhanced network selection

Signal level enhanced network selection applies only to NB-IoT, GERAN EC-GSM-IoT and Category M1 or M2 of E-UTRA. An MS supporting any, or a combination, of NB-IoT, GERAN EC-GSM-IoT and Category M1 or M2 of E-UTRA shall apply signal level enhanced network selection if the following conditions are fulfilled:

1) The MS is in automatic PLMN selection mode;

2) The MS supports the "Operator controlled signal threshold per access technology" as specified in 3GPP TS 22.011 [19];

3) The MS is configured for using signal level enhanced network selection as specified in 3GPP TS 24.368 [50]; and

4) The "Operator controlled signal threshold per access technology" is configured in the USIM.

NOTE 1: The usage of the "Operator controlled signal threshold per access technology" is intended only for IoT stationary devices (see 3GPP TS 22.011 [19]).

NOTE 2: "Operator controlled signal threshold per access technology" is not expected to be supported by non-IoT devices.

The MS can be configured with an "Operator controlled signal threshold per access technology" stored in the USIM (see 3GPP TS 31.102 [40]) consisting of one or more entries, each containing:

a) a home operator controlled signal threshold; and

b) an access technology.

A threshold for an access technology in the "Operator controlled signal threshold per access technology" data files in the SIM is applicable for any PLMN in the access technology.

Editor's note (WI SENSE, CR 0952): It is FFS whether HPLMN can use CP-SOR procedure to update the signal level enhanced network selection in the USIM.

\*\*\* end of change \*\*\*