**3GPP TSG-SA3 Meeting #116 *S3-242658***

Jeju, South Korea, 20th - 24th May 2024

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| *CR-Form-v12.1* |
| **DRAFT CHANGE REQUEST** |
|  |
|  | **33.501** | **CR** | ***draft*** | **rev** | **-** | **Current version:** | **18.5.0** |  |
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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 |  | ME |  | Radio Access Network |  | Core Network |  |

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| ***Title:***  | Living document on NR mobility enhancement |
|  |  |
| ***Source to WG:*** | Samsung |
| ***Source to TSG:*** | S3 |
|  |  |
| ***Work item code:*** | NRmobenh\_sec\_Ph1 |  | ***Date:*** | 2024-05-28 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-19 |
|  | *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 draft CR is the living document based on the approved WID proposal on security aspects of NR mobility enhancement ([S3-242401](https://www.3gpp.org/ftp/Meetings_3GPP_SYNC/SA3/docs/S3-242401.zip)). |
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| ***Summary of change:*** | This draft CR will capture the security procedures to support the inter-CU LTM in 5G systems based on RAN2 progress. |
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| ***Consequences if not approved:*** | Security aspects for inter-CU LTM in 5G system will not be supported |
|  |  |
| ***Clauses affected:*** |  |
|  |  |
|  | **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:*** | Clause Annex α of this draft CR is only used to document the work on the different options considered for the security aspects of inter-CU LTM. This annex α will not be included when this draft CR is converted into CR.  |
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| ***This CR's revision history:*** |  |

***Start of 1st Change***

#### 6.X.Y Security mechanism and procedures for inter-CU LTM

Editor’s Notes: This clause contains the security procedure for inter-CU LTM in 5G.

***End of 1st Change***

Annex α (Informative):
Security mechanisms for Inter-CU LTM

Editor’s Notes: This clause contains the key issues and security solutions considered for analyzing the security mechanism and procedure for inter-CU LTM based on work progress in RAN WGs.

# 1 References

[x] <doctype> <#>[ ([up to and including]{yyyy[-mm]|V<a[.b[.c]]>}[onwards])]: "<Title>".

# 2 Key issues

Editor’s Note: This clause contains all the key issues identified for the WID NRmobenh\_sec\_Ph1.

## 2.X Key Issue #X: <Key Issue Name>

### 2.X.1 Key issue details

### 2.X.2 Security threats

### 2.X.3 Potential security requirements

# 3 Solutions

Editor’s Note: This clause contains the proposed solutions addressing the identified key issues.

## 3.Y Solution #Y: <Solution Name>

### 3.Y.1 Introduction

Editor’s Note: Each solution should list the key issues being addressed.

### 3.Y.2 Solution details

### 3.Y.3 Evaluation

Editor’s Note: This clause should at least describe the impact on the system.

# 4 Conclusions

Editor’s Note: This clause contains the agreed conclusions that will form the basis for the draftCR.