3GPP TSG-RAN WG3 Meeting #129-bis R3-257256

Prague, Czech Republic, 13th - 17th Oct, 2025

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.473** | **CR** | **1609** | **rev** | **1** | **Current version:** | **19.0.0** |  |
|  | | | | | | | | |
| *For* [***HELP***](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 | **X** | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | Correction of OD-SIB1 procedure for network energy saving | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, Ericsson, Qualcomm, Jio Platforms, ZTE, Deutsche Telekom, Samsung, NEC, Rakuten, Nokia | | | | | | | | | |
| ***Source to TSG:*** | R3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | Netw\_Energy\_NR\_enh-Core | | | | |  | ***Date:*** | | | 2025-10-17 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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 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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19) Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | This CR addresses the following issues:   * The *On-demand SIB1 Config* IE refers to the od-SIB1-Config, which should be replaced with the OD-SIB1-Config IE according to TS 38.331. * The SIBx should be replaced by SIB26 according to TS 38.331. * The *paging adaptation Indication* IE is defined corresponding to the pagingAdaptation in RRC. It is better to have unified naming, and the ASN1. should be corrected to have enumerated value “supported”. * In ASN.1, the OnDemand-SIB1-Cell needs to be corrected as sequence structure. * The Abbreviations of OD-SIB1 is missing while the OD-SIB1-Config IE is referred. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | * Update the reference for the On-demand SIB1 Config IE to the OD-SIB1-Config IE. * The SIBx is replaced by SIB26. * Update the naming for paging adaptation indication IE, and the corresponding ASN.1. * Correct the OnDemand-SIB1-Cell in ASN.1 * Add abbreviation for OD-SIB1. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Those issues mentioned above exist, which results at defective specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 3.2, 8.7.1.1, 9.3.1.10, 9.3.1.270, 9.4.5, 9.4.7 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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's revision history:*** | | Initial version: R3-256900  Rev1: update based on the CB conclusion. | | | | | | | | |

*CHANGES START*

## 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

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NSSAI Network Slice Selection Assistance Information

OD-SIB1 On-demand SIB1

PEIPS Paging Early Indication with Paging Subgrouping

PNI-NPN Public Network Integrated Non-Public Network

ProSe Proximity Services

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## 8.7 Paging procedures

### 8.7.1 Paging

#### 8.7.1.1 General

The purpose of the Paging procedure is used to provide the paging information to enable the gNB-DU to page a UE. The procedure uses non-UE associated signalling.

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The *RedCap Indication* IE may be included in the *UE Paging Capability* IE in the PAGING message, and if present the gNB-DU shall, if supported, use it for paging of the RedCap UE or the eRedCap UE.

The *Paging Adaptation* IE may be included in the *UE Paging Capability* IE in the PAGING message, and if present the gNB-DU shall, if supported, use it for paging adaptation to the UE.

The *Last Used Cell Indication* IE may be included in the *Paging Cell Item IEs* IE of the PAGING message, and if present the gNB-DU shall, if supported, consider the cell identified by the *NR CGI* IE as the last used cell of the paged UE, and use it as specified in TS 38.331 [8].

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#### 9.3.1.10 Served Cell Information

This IE contains cell configuration information of a cell in the gNB-DU.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| NR CGI | M |  | 9.3.1.12 |  | - |  |
| NR PCI | M |  | INTEGER (0..1007) | Physical Cell ID | - |  |
| 5GS TAC | O |  | 9.3.1.29 | 5GS Tracking Area Code | - |  |
| Configured EPS TAC | O |  | 9.3.1.29a |  | - |  |
| **Served PLMNs** |  | *1..<maxnoofBPLMNs>* |  | Broadcast PLMNs in SIB 1 associated to the NR Cell Identity in the *NR CGI* IE | - |  |
| >PLMN Identity | M |  | 9.3.1.14 |  | - |  |
| >TAI Slice Support List | O |  | Slice Support List  9.3.1.37 | Supported S-NSSAIs per PLMN or per SNPN. | YES | ignore |
| >NPN Support Information | O |  | 9.3.1.156 | Supported NPNs per PLMN. | YES | reject |
| >Extended TAI Slice Support List | O |  | Extended Slice Support List  9.3.1.165 | Additional Supported S-NSSAIs per PLMN or per SNPN. | YES | reject |
| >TAI NSAG Support List | O |  | 9.3.1.273 | NSAG information associated with the slices per TAC, per PLMN or per SNPN. | YES | ignore |
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| Barring Exemption for Emergency Call Information | O |  | ENUMERATED (true, …) | Corresponds to information provided in the *barringExemptEmergencyCall* contained in the *SIB1* message as defined in 38.331 [8]. | YES | ignore |
| NZP CSI-RS Resources Configuration | O |  | 9.3.1.356 |  | YES | ignore |
| SRS Resource Configuration | O |  | 9.3.1.357 |  | YES | ignore |
| CHOICE *on-demand SIB1* | O |  |  |  | YES | ignore |
| >*Provision* |  |  |  |  |  |  |
| >>On-demand SIB1 Config | M |  | OCTET STRING | Includes the *OD-SIB1-Config* IE contained in the SIB26 message as defined in TS 38.331 [8]. | - |  |
| >*Stop provision* |  |  | NULL |  |  |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofBPLMNs | Maximum no. of Broadcast PLMN Ids. Value is 6. |
| maxnoofExtendedBPLMNs | Maximum no. of Extended Broadcast PLMN Ids. Value is 6. |
| maxnoofBPLMNsNR | Maximum no. of PLMN Ids.broadcast in an NR cell. Value is 12. |
| maxnoofNR-UChannelIDs | Maximum no. NR-U Channel IDs in a cell. Value is 16. |
| maxnoofMBSFSAs | Maximum no. of MBS FSAs by a cell. Value is 256. |

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#### 9.3.1.270 UE Paging Capability

This IE provides the UE Paging Capability information needed for paging.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| INACTIVE State PO-Determination | O |  | ENUMERATED(supported,…) | Corresponds to the *inactiveStatePO-Determination* contained in the *UERadioPagingInformation* IE defined in TS 38.331 [8]. | - |  |
| RedCap Indication | O |  | ENUMERATED(true,…) | Indicates that the paged UE is a Redcap UE or an eRedCap UE. | YES | ignore |
| Paging Adaptation | O |  | ENUMERATED(supported,…) | Corresponds to the *pagingAdaptation* contained in the *UERadioPagingInformation* IE defined in TS 38.331 [8]. | YES | ignore |

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### 9.4.5 Information Element Definitions

-- ASN1START

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-- Information Element Definitions

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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id-SRS-Resource-Configuration,

id-rLFReportFailureType,

id-C-RNTI,

id-OnDemandSIB1,

id-PagingAdaptation,

id-PEISubgroupingSupportIndication-PagingAdaptation,

id-ServingCellMO-Ondemand,

id-LTMgNB-ID,

id-L1ExecutionConditionList,

id-LTMSecurityInformation,

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OnDemandSIB1 ::= CHOICE {

provision OndemandSIB1Config,

stopProvison NULL,

choice-extension ProtocolIE-SingleContainer { { OnDemandSIB1-ExtIEs} }

}

OnDemandSIB1-ExtIEs F1AP-PROTOCOL-IES ::= {

...

}

OnDemand-SIB1-Cell ::= SEQUENCE {

nRCGI NRCGI,

on-demandSIBIndindicator ENUMERATED{start, stop, ...},

iE-Extensions ProtocolExtensionContainer { { OnDemand-SIB1-Cell-ExtIEs} } OPTIONAL

}

OnDemand-SIB1-Cell-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

OndemandSIB1Config ::= OCTET STRING

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PagingAdaptation ::= ENUMERATED {supported, ...}

PER-Scalar ::= INTEGER (0..9, ...)

PER-Exponent ::= INTEGER (0..9, ...)

PagingCell-Item ::= SEQUENCE {

nRCGI NRCGI ,

iE-Extensions ProtocolExtensionContainer { { PagingCell-ItemExtIEs } } OPTIONAL

}

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UEPagingCapability ::= SEQUENCE {

iNACTIVEStatePODetermination ENUMERATED {supported, ...} OPTIONAL,

iE-Extension ProtocolExtensionContainer { { UEPagingCapability-ExtIEs} } OPTIONAL,

...

}

UEPagingCapability-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

{ ID id-RedCapIndication CRITICALITY ignore EXTENSION RedCapIndication PRESENCE optional }|

{ ID id-PagingAdaptation CRITICALITY ignore EXTENSION PagingAdaptation PRESENCE optional },

...

}

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### 9.4.7 Constant Definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Constant definitions

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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id-rLFReportFailureType ProtocolIE-ID ::= 887

id-ReportingWithoutRLFReport ProtocolIE-ID ::= 888

id-MROForLTM-Information ProtocolIE-ID ::= 889

id-LastVisitedLTMCells ProtocolIE-ID ::= 890

id-OnDemandSIB1 ProtocolIE-ID ::= 891

id-PagingAdaptation ProtocolIE-ID ::= 892

id-OnDemand-SIB1-Cell ProtocolIE-ID ::= 893

id-PEISubgroupingSupportIndication-PagingAdaptation ProtocolIE-ID ::= 894

id-ServingCellMO-Ondemand ProtocolIE-ID ::= 895

id-LTMgNB-ID ProtocolIE-ID ::= 896

*CHANGES END*