**3GPP TSG-WG2 #131 *R2-25xxxxx***

**Bengaluru, India, 25th – 29th August 2025**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.331** | **CR** | **Draft** | **rev** | **-** | **Current version:** | **18.6.0** |  |
|  | | | | | | | | |
| *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 | **x** | Core Network | **x** |

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|  | | | | | | | | | | |
| ***Title:*** | Introduction of UE capability for network energy saving enhancement in TS 38.331 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | ZTE Corporation, Sanechips | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | Netw\_Energy\_NR\_enh-Core | | | | |  | ***Date:*** | | | 2025-09-02 |
|  |  | | | |  | |  | | |  |
| ***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 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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Introduction of UE capability for network energy saving enhancement in TS 38.331 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Introduction of UE capability for network energy saving enhancement in TS 38.331 based on the following agreements:  RAN2#129 Agreement：   * A new UE capability is added for R19 NES paging enhancement, and the new capability is included in UE-RadioPagingInfo. FFS on whether we have a common capability for all NES features. * Use a “container” using OCTET STRING with content generated by UE when new UE Radio Paging Capabilities are introduced. This is applicable only to new Rel-19 and future capabilities added to paging capabilities. This will only work for Rel-19 Gnb   RAN2#130 Agreement：   * The capability for paging adaption to be included in UE-RadioPagingInfo is a separate capability from other NES features and no need to define a common capability for all NES features. * Use a “container” using OCTET STRING with content generated by UE for paging adaption capability. * The paging adaption capability is per UE. * Introduce new capability for R19 PEI in NES and follow the existing PEI capability definition to have this new capability per band.   RAN2#131 Agreement：   * The OD-SIB1 capability is defined as optional with capability signaling to assist the dedicated reselection priority configuration at network side. * OD-SIB1 capability is not included into paging container. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | UE capability for network energy saving enhancement is not captured in 38.331. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.3.3, 11.2.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **x** |  | Other core specifications | | | | TS 38.306 CR XXXX | | |
| ***affected:*** | |  |  | Test specifications | | | |  | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | |  | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

Start of Change

6.3.3 UE capability information elements

– *UE-NR-Capability*

The IE *UE-NR-Capability* is used to convey the NR UE Radio Access Capability Parameters, see TS 38.306 [26].

***UE-NR-Capability* information element**

-- ASN1START

-- TAG-UE-NR-CAPABILITY-START

UE-NR-Capability ::= SEQUENCE {

accessStratumRelease AccessStratumRelease,

pdcp-Parameters PDCP-Parameters,

rlc-Parameters RLC-Parameters OPTIONAL,

mac-Parameters MAC-Parameters OPTIONAL,

phy-Parameters Phy-Parameters,

rf-Parameters RF-Parameters,

measAndMobParameters MeasAndMobParameters OPTIONAL,

fdd-Add-UE-NR-Capabilities UE-NR-CapabilityAddXDD-Mode OPTIONAL,

tdd-Add-UE-NR-Capabilities UE-NR-CapabilityAddXDD-Mode OPTIONAL,

fr1-Add-UE-NR-Capabilities UE-NR-CapabilityAddFRX-Mode OPTIONAL,

fr2-Add-UE-NR-Capabilities UE-NR-CapabilityAddFRX-Mode OPTIONAL,

featureSets FeatureSets OPTIONAL,

featureSetCombinations SEQUENCE (SIZE (1..maxFeatureSetCombinations)) OF FeatureSetCombination OPTIONAL,

lateNonCriticalExtension OCTET STRING (CONTAINING UE-NR-Capability-v15c0) OPTIONAL,

nonCriticalExtension UE-NR-Capability-v1530 OPTIONAL

}

-- Regular non-critical Rel-15 extensions:

UE-NR-Capability-v1530 ::= SEQUENCE {

fdd-Add-UE-NR-Capabilities-v1530 UE-NR-CapabilityAddXDD-Mode-v1530 OPTIONAL,

tdd-Add-UE-NR-Capabilities-v1530 UE-NR-CapabilityAddXDD-Mode-v1530 OPTIONAL,

dummy ENUMERATED {supported} OPTIONAL,

interRAT-Parameters InterRAT-Parameters OPTIONAL,

inactiveState ENUMERATED {supported} OPTIONAL,

delayBudgetReporting ENUMERATED {supported} OPTIONAL,

nonCriticalExtension UE-NR-Capability-v1540 OPTIONAL

}

UE-NR-Capability-v1540 ::= SEQUENCE {

sdap-Parameters SDAP-Parameters OPTIONAL,

overheatingInd ENUMERATED {supported} OPTIONAL,

ims-Parameters IMS-Parameters OPTIONAL,

fr1-Add-UE-NR-Capabilities-v1540 UE-NR-CapabilityAddFRX-Mode-v1540 OPTIONAL,

fr2-Add-UE-NR-Capabilities-v1540 UE-NR-CapabilityAddFRX-Mode-v1540 OPTIONAL,

fr1-fr2-Add-UE-NR-Capabilities UE-NR-CapabilityAddFRX-Mode OPTIONAL,

nonCriticalExtension UE-NR-Capability-v1550 OPTIONAL

}

UE-NR-Capability-v1550 ::= SEQUENCE {

reducedCP-Latency ENUMERATED {supported} OPTIONAL,

nonCriticalExtension UE-NR-Capability-v1560 OPTIONAL

}

UE-NR-Capability-v1560 ::= SEQUENCE {

nrdc-Parameters NRDC-Parameters OPTIONAL,

receivedFilters OCTET STRING (CONTAINING UECapabilityEnquiry-v1560-IEs) OPTIONAL,

nonCriticalExtension UE-NR-Capability-v1570 OPTIONAL

}

UE-NR-Capability-v1570 ::= SEQUENCE {

nrdc-Parameters-v1570 NRDC-Parameters-v1570 OPTIONAL,

nonCriticalExtension UE-NR-Capability-v1610 OPTIONAL

}

-- Late non-critical Rel-15 extensions:

UE-NR-Capability-v15c0 ::= SEQUENCE {

nrdc-Parameters-v15c0 NRDC-Parameters-v15c0 OPTIONAL,

partialFR2-FallbackRX-Req ENUMERATED {true} OPTIONAL,

nonCriticalExtension UE-NR-Capability-v15g0 OPTIONAL

}

UE-NR-Capability-v15g0 ::= SEQUENCE {

rf-Parameters-v15g0 RF-Parameters-v15g0 OPTIONAL,

nonCriticalExtension UE-NR-Capability-v15j0 OPTIONAL

}

UE-NR-Capability-v15j0 ::= SEQUENCE {

-- Following field is only for REL-15 late non-critical extensions

lateNonCriticalExtension OCTET STRING (CONTAINING UE-NR-Capability-v15t0) OPTIONAL,

nonCriticalExtension UE-NR-Capability-v16a0 OPTIONAL

}

UE-NR-Capability-v15t0 ::= SEQUENCE {

featureSets-v15t0 FeatureSets-v15t0 OPTIONAL,

measAndMobParameters-v15t0 MeasAndMobParameters-v15t0 OPTIONAL,

nonCriticalExtension SEQUENCE {} OPTIONAL

}

-- Regular non-critical Rel-16 extensions:

UE-NR-Capability-v1610 ::= SEQUENCE {

inDeviceCoexInd-r16 ENUMERATED {supported} OPTIONAL,

dl-DedicatedMessageSegmentation-r16 ENUMERATED {supported} OPTIONAL,

nrdc-Parameters-v1610 NRDC-Parameters-v1610 OPTIONAL,

powSav-Parameters-r16 PowSav-Parameters-r16 OPTIONAL,

fr1-Add-UE-NR-Capabilities-v1610 UE-NR-CapabilityAddFRX-Mode-v1610 OPTIONAL,

fr2-Add-UE-NR-Capabilities-v1610 UE-NR-CapabilityAddFRX-Mode-v1610 OPTIONAL,

bh-RLF-Indication-r16 ENUMERATED {supported} OPTIONAL,

directSN-AdditionFirstRRC-IAB-r16 ENUMERATED {supported} OPTIONAL,

bap-Parameters-r16 BAP-Parameters-r16 OPTIONAL,

referenceTimeProvision-r16 ENUMERATED {supported} OPTIONAL,

sidelinkParameters-r16 SidelinkParameters-r16 OPTIONAL,

highSpeedParameters-r16 HighSpeedParameters-r16 OPTIONAL,

mac-Parameters-v1610 MAC-Parameters-v1610 OPTIONAL,

mcgRLF-RecoveryViaSCG-r16 ENUMERATED {supported} OPTIONAL,

resumeWithStoredMCG-SCells-r16 ENUMERATED {supported} OPTIONAL,

resumeWithStoredSCG-r16 ENUMERATED {supported} OPTIONAL,

resumeWithSCG-Config-r16 ENUMERATED {supported} OPTIONAL,

ue-BasedPerfMeas-Parameters-r16 UE-BasedPerfMeas-Parameters-r16 OPTIONAL,

son-Parameters-r16 SON-Parameters-r16 OPTIONAL,

onDemandSIB-Connected-r16 ENUMERATED {supported} OPTIONAL,

nonCriticalExtension UE-NR-Capability-v1640 OPTIONAL

}

UE-NR-Capability-v1640 ::= SEQUENCE {

redirectAtResumeByNAS-r16 ENUMERATED {supported} OPTIONAL,

phy-ParametersSharedSpectrumChAccess-r16 Phy-ParametersSharedSpectrumChAccess-r16 OPTIONAL,

nonCriticalExtension UE-NR-Capability-v1650 OPTIONAL

}

UE-NR-Capability-v1650 ::= SEQUENCE {

mpsPriorityIndication-r16 ENUMERATED {supported} OPTIONAL,

highSpeedParameters-v1650 HighSpeedParameters-v1650 OPTIONAL,

nonCriticalExtension UE-NR-Capability-v1690 OPTIONAL

}

UE-NR-Capability-v1690 ::= SEQUENCE {

ul-RRC-Segmentation-r16 ENUMERATED {supported} OPTIONAL,

nonCriticalExtension UE-NR-Capability-v1700 OPTIONAL

}

-- Late non-critical extensions from Rel-16 onwards:

UE-NR-Capability-v16a0 ::= SEQUENCE {

phy-Parameters-v16a0 Phy-Parameters-v16a0 OPTIONAL,

rf-Parameters-v16a0 RF-Parameters-v16a0 OPTIONAL,

nonCriticalExtension UE-NR-Capability-v16c0 OPTIONAL

}

UE-NR-Capability-v16c0 ::= SEQUENCE {

rf-Parameters-v16c0 RF-Parameters-v16c0 OPTIONAL,

nonCriticalExtension UE-NR-Capability-v16d0 OPTIONAL

}

UE-NR-Capability-v16d0 ::= SEQUENCE {

featureSets-v16d0 FeatureSets-v16d0 OPTIONAL,

nonCriticalExtension UE-NR-Capability-v16j0 OPTIONAL

}

UE-NR-Capability-v16j0 ::= SEQUENCE {

rf-Parameters-v16j0 RF-Parameters-v16j0 OPTIONAL,

-- Following field is only for REL-16 late non-critical extensions

lateNonCriticalExtension OCTET STRING (CONTAINING UE-NR-Capability-v16k0) OPTIONAL,

nonCriticalExtension UE-NR-Capability-v17b0 OPTIONAL

}

UE-NR-Capability-v16k0 ::= SEQUENCE {

featureSets-v16k0 FeatureSets-v16k0 OPTIONAL,

nonCriticalExtension SEQUENCE {} OPTIONAL

}

-- Regular non-critical Rel-17 extensions:

UE-NR-Capability-v1700 ::= SEQUENCE {

inactiveStatePO-Determination-r17 ENUMERATED {supported} OPTIONAL,

highSpeedParameters-v1700 HighSpeedParameters-v1700 OPTIONAL,

powSav-Parameters-v1700 PowSav-Parameters-v1700 OPTIONAL,

mac-Parameters-v1700 MAC-Parameters-v1700 OPTIONAL,

ims-Parameters-v1700 IMS-Parameters-v1700 OPTIONAL,

measAndMobParameters-v1700 MeasAndMobParameters-v1700,

appLayerMeasParameters-r17 AppLayerMeasParameters-r17 OPTIONAL,

redCapParameters-r17 RedCapParameters-r17 OPTIONAL,

ra-SDT-r17 ENUMERATED {supported} OPTIONAL,

srb-SDT-r17 ENUMERATED {supported} OPTIONAL,

gNB-SideRTT-BasedPDC-r17 ENUMERATED {supported} OPTIONAL,

bh-RLF-DetectionRecovery-Indication-r17 ENUMERATED {supported} OPTIONAL,

nrdc-Parameters-v1700 NRDC-Parameters-v1700 OPTIONAL,

bap-Parameters-v1700 BAP-Parameters-v1700 OPTIONAL,

musim-GapPreference-r17 ENUMERATED {supported} OPTIONAL,

musimLeaveConnected-r17 ENUMERATED {supported} OPTIONAL,

mbs-Parameters-r17 MBS-Parameters-r17,

nonTerrestrialNetwork-r17 ENUMERATED {supported} OPTIONAL,

ntn-ScenarioSupport-r17 ENUMERATED {gso, ngso} OPTIONAL,

sliceInfoforCellReselection-r17 ENUMERATED {supported} OPTIONAL,

ue-RadioPagingInfo-r17 UE-RadioPagingInfo-r17 OPTIONAL,

-- R4 17-2 UL gap pattern for Tx power management

ul-GapFR2-Pattern-r17 BIT STRING (SIZE (4)) OPTIONAL,

ntn-Parameters-r17 NTN-Parameters-r17 OPTIONAL,

nonCriticalExtension UE-NR-Capability-v1740 OPTIONAL

}

UE-NR-Capability-v1740 ::= SEQUENCE {

redCapParameters-v1740 RedCapParameters-v1740,

nonCriticalExtension UE-NR-Capability-v1750 OPTIONAL

}

UE-NR-Capability-v1750 ::= SEQUENCE {

crossCarrierSchedulingConfigurationRelease-r17 ENUMERATED {supported} OPTIONAL,

nonCriticalExtension UE-NR-Capability-v1800 OPTIONAL

}

-- Late non-critical extensions from Rel-17 onwards:

UE-NR-Capability-v17b0 ::= SEQUENCE {

mac-Parameters-v17b0 MAC-Parameters-v17b0 OPTIONAL,

rf-Parameters-v17b0 RF-Parameters-v17b0 OPTIONAL,

ul-RRC-MaxCapaSegments-r17 ENUMERATED {supported} OPTIONAL,

nonCriticalExtension UE-NR-Capability-v17c0 OPTIONAL

}

UE-NR-Capability-v17c0 ::= SEQUENCE {

mac-Parameters-v17c0 MAC-Parameters-v17c0 OPTIONAL,

nonCriticalExtension UE-NR-Capability-v17d0 OPTIONAL

}

UE-NR-Capability-v17d0 ::= SEQUENCE {

featureSets-v17d0 FeatureSets-v17d0 OPTIONAL,

nonCriticalExtension SEQUENCE {} OPTIONAL

}

-- Regular non-critical Rel-18 extensions:

UE-NR-Capability-v1800 ::= SEQUENCE {

airToGroundNetwork-r18 ENUMERATED {supported} OPTIONAL,

eRedCapParameters-r18 ERedCapParameters-r18 OPTIONAL,

ncr-Parameters-r18 NCR-Parameters-r18 OPTIONAL,

softSatelliteSwitchResyncNTN-r18 ENUMERATED {supported} OPTIONAL,

hardSatelliteSwitchResyncNTN-r18 ENUMERATED {supported} OPTIONAL,

mt-SDT-r18 ENUMERATED {supported} OPTIONAL,

mt-SDT-NTN-r18 ENUMERATED {supported} OPTIONAL,

inDeviceCoexIndAutonomousDenial-r18 ENUMERATED {supported} OPTIONAL,

inDeviceCoexIndFDM-r18 ENUMERATED {supported} OPTIONAL,

inDeviceCoexIndTDM-r18 ENUMERATED {supported} OPTIONAL,

musim-GapPriorityPreference-r18 ENUMERATED {supported} OPTIONAL,

musim-CapabilityRestriction-r18 ENUMERATED {supported} OPTIONAL,

dummy ENUMERATED {supported} OPTIONAL,

ra-InsteadCG-SDT-r18 ENUMERATED {supported} OPTIONAL,

resumeAfterSDT-Release-r18 ENUMERATED {supported} OPTIONAL,

ul-TrafficInfo-r18 ENUMERATED {supported} OPTIONAL,

aerialParameters-r18 AerialParameters-r18 OPTIONAL,

--R4 40-2: beam steering

ntn-VSAT-AntennaType-r18 ENUMERATED {electronic, mechanical} OPTIONAL,

--R4 40-1: VSAT UE type in NTN

ntn-VSAT-MobilityType-r18 ENUMERATED {fixed, mobile} OPTIONAL,

ntn-Parameters-v1820 NTN-Parameters-v1820 OPTIONAL,

nonCriticalExtension UE-NR-Capability-v1830 OPTIONAL

}

UE-NR-Capability-v1830 ::= SEQUENCE {

sib19-Support-r18 ENUMERATED {supported} OPTIONAL,

nonCriticalExtension UE-NR-Capability-v1860 OPTIONAL

}

UE-NR-Capability-v1860 ::= SEQUENCE {

ntn-CHO-OnlyLocationTimeTrigger-r18 ENUMERATED {supported} OPTIONAL,

nonCriticalExtension UE-NR-Capability-v19xy OPTIONAL

}

UE-NR-Capability-v19xy ::= SEQUENCE {

ue-RadioPagingInfo-r19 OCTET STRING (CONTAINING UE-RadioPagingInfo-r19) OPTIONAL,

onDemandSIB1-r19 ENUMERATED {supported} OPTIONAL,

nonCriticalExtension SEQUENCE{} OPTIONAL

}

UE-NR-CapabilityAddXDD-Mode ::= SEQUENCE {

phy-ParametersXDD-Diff Phy-ParametersXDD-Diff OPTIONAL,

mac-ParametersXDD-Diff MAC-ParametersXDD-Diff OPTIONAL,

measAndMobParametersXDD-Diff MeasAndMobParametersXDD-Diff OPTIONAL

}

UE-NR-CapabilityAddXDD-Mode-v1530 ::= SEQUENCE {

eutra-ParametersXDD-Diff EUTRA-ParametersXDD-Diff

}

UE-NR-CapabilityAddFRX-Mode ::= SEQUENCE {

phy-ParametersFRX-Diff Phy-ParametersFRX-Diff OPTIONAL,

measAndMobParametersFRX-Diff MeasAndMobParametersFRX-Diff OPTIONAL

}

UE-NR-CapabilityAddFRX-Mode-v1540 ::= SEQUENCE {

ims-ParametersFRX-Diff IMS-ParametersFRX-Diff OPTIONAL

}

UE-NR-CapabilityAddFRX-Mode-v1610 ::= SEQUENCE {

powSav-ParametersFRX-Diff-r16 PowSav-ParametersFRX-Diff-r16 OPTIONAL,

mac-ParametersFRX-Diff-r16 MAC-ParametersFRX-Diff-r16 OPTIONAL

}

BAP-Parameters-r16 ::= SEQUENCE {

flowControlBH-RLC-ChannelBased-r16 ENUMERATED {supported} OPTIONAL,

flowControlRouting-ID-Based-r16 ENUMERATED {supported} OPTIONAL

}

BAP-Parameters-v1700 ::= SEQUENCE {

bapHeaderRewriting-Rerouting-r17 ENUMERATED {supported} OPTIONAL,

bapHeaderRewriting-Routing-r17 ENUMERATED {supported} OPTIONAL

}

MBS-Parameters-r17 ::= SEQUENCE {

maxMRB-Add-r17 INTEGER (1..16) OPTIONAL

}

-- TAG-UE-NR-CAPABILITY-STOP

-- ASN1STOP

|  |
| --- |
| ***UE-NR-Capability* field descriptions** |
| ***featureSetCombinations***  A list of *FeatureSetCombination:s* for *supportedBandCombinationList* in *UE-NR-Capability*. The *FeatureSetDownlink:s* and *FeatureSetUplink:s* referred to from these *FeatureSetCombination:s* are defined in the *featureSets* list in *UE-NR-Capability*. |

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| --- |
| ***UE-NR-Capability-v1540 field descriptions*** |
| ***fr1-fr2-Add-UE-NR-Capabilities***  This instance of *UE-NR-CapabilityAddFRX-Mode* does not include any other fields than *csi-RS-IM-ReceptionForFeedback*/ *csi-RS-ProcFrameworkForSRS*/ *csi-ReportFramework*. |

Next Change

– *UE-RadioPagingInfo*

The IE *UE-RadioPagingInfo* contains UE capability information needed for paging.

***UE-RadioPagingInfo* information element**

-- ASN1START

-- TAG-UE-RADIOPAGINGINFO-START

UE-RadioPagingInfo-r17 ::= SEQUENCE {

-- R1 29-1: Paging enhancement

pei-SubgroupingSupportBandList-r17 SEQUENCE (SIZE (1..maxBands)) OF FreqBandIndicatorNR OPTIONAL,

...

}

UE-RadioPagingInfo-r19 ::= SEQUENCE {

pagingAdaptation-r19 ENUMERATED {supported} OPTIONAL,

pagingAdaptionPEI-SupportBandList-r19 SEQUENCE (SIZE (1..maxBands)) OF FreqBandIndicatorNR OPTIONAL,

...

}

-- TAG-UE-RADIOPAGINGINFO-STOP

-- ASN1STOP

Next Change

11.2.2 Message definitions

– *UERadioPagingInformation*

This message is used to transfer radio paging information, covering both upload to and download from the 5GC, and between gNBs.

Direction: gNB to/ from 5GC and gNB to/from gNB

***UERadioPagingInformation* message**

-- ASN1START

-- TAG-UE-RADIO-PAGING-INFORMATION-START

UERadioPagingInformation ::= SEQUENCE {

criticalExtensions CHOICE {

c1 CHOICE{

ueRadioPagingInformation UERadioPagingInformation-IEs,

spare7 NULL,

spare6 NULL, spare5 NULL, spare4 NULL,

spare3 NULL, spare2 NULL, spare1 NULL

},

criticalExtensionsFuture SEQUENCE {}

}

}

UERadioPagingInformation-IEs ::= SEQUENCE {

supportedBandListNRForPaging SEQUENCE (SIZE (1..maxBands)) OF FreqBandIndicatorNR OPTIONAL,

nonCriticalExtension UERadioPagingInformation-v15e0-IEs OPTIONAL

}

UERadioPagingInformation-v15e0-IEs ::= SEQUENCE {

dl-SchedulingOffset-PDSCH-TypeA-FDD-FR1 ENUMERATED {supported} OPTIONAL,

dl-SchedulingOffset-PDSCH-TypeA-TDD-FR1 ENUMERATED {supported} OPTIONAL,

dl-SchedulingOffset-PDSCH-TypeA-TDD-FR2 ENUMERATED {supported} OPTIONAL,

dl-SchedulingOffset-PDSCH-TypeB-FDD-FR1 ENUMERATED {supported} OPTIONAL,

dl-SchedulingOffset-PDSCH-TypeB-TDD-FR1 ENUMERATED {supported} OPTIONAL,

dl-SchedulingOffset-PDSCH-TypeB-TDD-FR2 ENUMERATED {supported} OPTIONAL,

nonCriticalExtension UERadioPagingInformation-v1700-IEs OPTIONAL

}

UERadioPagingInformation-v1700-IEs ::= SEQUENCE {

ue-RadioPagingInfo-r17 OCTET STRING (CONTAINING UE-RadioPagingInfo-r17) OPTIONAL,

inactiveStatePO-Determination-r17 ENUMERATED {supported} OPTIONAL,

numberOfRxRedCap-r17 ENUMERATED {one, two} OPTIONAL,

halfDuplexFDD-TypeA-RedCap-r17 SEQUENCE (SIZE (1..maxBands)) OF FreqBandIndicatorNR OPTIONAL,

nonCriticalExtension UERadioPagingInformation-v1800-IEs OPTIONAL

}

UERadioPagingInformation-v1800-IEs ::= SEQUENCE {

numberOfRxERedCap-r18 ENUMERATED {one, two} OPTIONAL,

supportOf2RxXR-r18 ENUMERATED {supported} OPTIONAL,

nonCriticalExtension UERadioPagingInformation-v1840-IEs OPTIONAL

}

UERadioPagingInformation-v1840-IEs ::= SEQUENCE {

dl-SchedulingOffset-PDSCH-TypeA-FDD-FR2-NTN-r18 ENUMERATED {supported} OPTIONAL,

dl-SchedulingOffset-PDSCH-TypeB-FDD-FR2-NTN-r18 ENUMERATED {supported} OPTIONAL,

nonCriticalExtension SEQUENCE {} OPTIONAL

}

UERadioPagingInformation-v19xy-IEs ::= SEQUENCE {

ue-RadioPagingInfo-r19 OCTET STRING (CONTAINING UE-RadioPagingInfo-r19) OPTIONAL,

nonCriticalExtension SEQUENCE {} OPTIONAL

}

-- TAG-UE-RADIO-PAGING-INFORMATION-STOP

-- ASN1STOP

| ***UERadioPagingInformation* field descriptions** |
| --- |
| ***supportedBandListNRForPaging***  Indicates the UE supported NR frequency bands which are derived by the gNB from *UE-NR-Capability*. |
| ***dl-SchedulingOffset-PDSCH-TypeA-FDD-FR1***  Indicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for PDSCH mapping type A in FDD FR1. |
| ***dl-SchedulingOffset-PDSCH-TypeA-FDD-FR2-NTN***  Indicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for PDSCH mapping type A in FDD FR2-NTN. |
| ***dl-SchedulingOffset-PDSCH-TypeA-TDD-FR1***  Indicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for PDSCH mapping type A in TDD FR1. |
| ***dl-SchedulingOffset-PDSCH-TypeA-TDD-FR2***  Indicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for PDSCH mapping type A in TDD FR2. |
| ***dl-SchedulingOffset-PDSCH-TypeB-FDD-FR1***  Indicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for PDSCH mapping type B in FDD FR1. |
| ***dl-SchedulingOffset-PDSCH-TypeB-FDD-FR2-NTN***  Indicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for PDSCH mapping type B in FDD FR2-NTN. |
| ***dl-SchedulingOffset-PDSCH-TypeB-TDD-FR1***  Indicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for PDSCH mapping type B in TDD FR1. |
| ***dl-SchedulingOffset-PDSCH-TypeB-TDD-FR2***  Indicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for PDSCH mapping type B in TDD FR2. |
| ***halfDuplexFDD-TypeA-RedCap***  Indicates whether the (e)RedCap UE only supports half-duplex operation for FDD in the indicated band(s). |
| ***inactiveStatePO-Determination***  Indicates whether the UE supports to use the same i\_s to determine PO in RRC\_INACTIVE state as in RRC\_IDLE state. |
| ***numberOfRxERedCap***  Indicates the number of Rx branches supported by an eRedCap UE. |
| ***numberOfRxRedCap***  Indicates the number of Rx branches supported by a RedCap UE. |
| ***supportOf2RxXR***  Indicates whether the UE is a 2Rx XR UE. |
| ***ue-RadioPagingInfo***  The field is used to transfer UE capability information used for paging. The gNB generates the *ue-RadioPagingInfo-r17* and the contained UE capability information is absent when not supported by the UE. The content of *ue-RadioPagingInfo-r19* is generated by the UE. |

End of Change