3GPP TSG-RAN WG3 #119bis-e R3-23xxxx

17th – 26th April 2023

Online

Agenda Item: 21.2

Source: ZTE, Nokia, Nokia Shanghai Bell

Title: (TP to 38.423) Introduction on NR Redcap enhancement

Document for: Approval

# Introduction

Include the following agreement into the TS38.423

XnAP agreements:

**Extend the *NR Paging eDRX Information for RRC INACTIVE* IE XnAP 9.2.3.162:**

* **Add new codepoints in the *NR Paging eDRX Cycle Inactive* IE: ENUMERATED (hfquarter, hfhalf, hf1, …,hf2, hf4, hf8, hf16, hf32, hf64, hf128, hf256, hf512, hf1024)**
* **add the *NR Paging Time Window* IE ENUMERATED (s1, s2, s3, s4, s5, s6, s7, s8, s9, s10, s11, s12, s13, s14, s15, s16, s17, s18, s19, s20, s21, s22, s23, s24, s25, s26, s27, s28, s29, s30, s31,**
* **s32,…)**

# Text proposal for TS 38.423

================<Start of change>=================

#### 9.2.3.162 NR Paging eDRX Information for RRC INACTIVE

This IE indicates the NR Paging eDRX parameters for RRC\_INACTIVE as defined in TS 38.304 [33].

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| NR Paging eDRX Cycle Inactive | M |  | ENUMERATED (hfquarter, hfhalf, hf1, …, hf2, hf4, hf8, hf16, hf32, hf64, hf128, hf256, hf512, hf1024) | TeDRX, RAN defined in TS 38.304 [33]. Unit: [number of hyperframes]. | – |  |
| NR Paging Time Window Inactive | O |  | ENUMERATED (s1, s2, s3, s4, s5, s6, s7, s8, s9, s10, s11, s12, s13, s14, s15, s16, s17, s18, s19, s20, s21, s22, s23, s24, s25, s26, s27, s28, s29, s30, s31, s32, …) | Unit: [1.28 seconds] | YES | ignore |

================<Next change>=================

### 9.3.5 Information Element definitions

-- ASN1START

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

--

-- Information Element Definitions

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

<Skip unchanged part>

 id-BeamMeasurementsReportConfiguration,

 id-CoverageModificationCause,

 id-UERLFReportContainerLTEExtension,

 id-ExcessPacketDelayThresholdConfiguration,

 id-NRPaging-Time-Window-Inactive,

 maxEARFCN,

 maxnoofAllowedAreas,

 maxnoofAMFRegions,

 maxnoofAoIs,

 maxnoofBPLMNs,

 maxnoofCAGs,

 maxnoofCAGsperPLMN,

<Skip unchanged part>

NRPagingeDRXInformation ::= SEQUENCE {

 nRPaging-eDRX-Cycle NRPaging-eDRX-Cycle,

 nRPaging-Time-Window NRPaging-Time-Window OPTIONAL,

 iE-Extensions ProtocolExtensionContainer { {NRPagingeDRXInformation-ExtIEs} } OPTIONAL,

 ...

}

NRPagingeDRXInformation-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

 ...

}

NRPaging-eDRX-Cycle ::= ENUMERATED {

 hfquarter, hfhalf, hf1, hf2, hf4,

 hf8, hf16,

 hf32, hf64, hf128, hf256,

 hf512, hf1024,

 ...

}

NRPaging-Time-Window ::= ENUMERATED {

 s1, s2, s3, s4, s5,

 s6, s7, s8, s9, s10,

 s11, s12, s13, s14, s15, s16,

 ...,s17, s18, s19, s20, s21, s22,

 s23, s24, s25, s26, s27, s28, s29,

 s30, s31, s32

}

NRPagingeDRXInformationforRRCINACTIVE ::= SEQUENCE {

 nRPaging-eDRX-Cycle-Inactive NRPaging-eDRX-Cycle-Inactive,

 iE-Extensions ProtocolExtensionContainer { { NRPagingeDRXInformationforRRCINACTIVE-ExtIEs} } OPTIONAL,

 ...

}

NRPagingeDRXInformationforRRCINACTIVE-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

{ ID id-NRPaging-Time-Window-Inactive CRITICALITY ignore EXTENSION NRPaging-Time-Window-Inactive PRESENCE optional},

 ...

}

NRPaging-eDRX-Cycle-Inactive ::= ENUMERATED {

 hfquarter, hfhalf, hf1,

 ..., hf2, hf4, hf8, hf16, hf32, hf64, hf128, hf256, hf512, hf1024

}

NRPaging-Time-Window-Inactive ::= ENUMERATED {

 s1, s2, s3, s4, s5,

 s6, s7, s8, s9, s10,

 s11, s12, s13, s14, s15, s16,

 s17, s18, s19, s20, s21, s22,

 s23, s24, s25, s26, s27, s28, s29,

 s30, s31, s32, ...

}

NRPCI ::= INTEGER (0..1007, ...)

<Skip unchanged part>

### 9.3.7 Constant definitions

-- ASN1START

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

--

-- Constant definitions

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

<Skip unchanged part>

id-CoverageModificationCause ProtocolIE-ID ::= 368

id-AdditionalListofPDUSessionResourceChangeConfirmInfo-SNterminated ProtocolIE-ID ::= 369

id-UERLFReportContainerLTEExtension ProtocolIE-ID ::= 370

id-ExcessPacketDelayThresholdConfiguration ProtocolIE-ID ::= 371

id-NRPaging-Time-Window-Inactive ProtocolIE-ID ::= xxx

END

-- ASN1STOP

================<End of change>=================