UECap Comments file

Template:

# O002

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| RIL Id | WI | Class | Title | Tdoc | Delegate | Misc | File version | Status |
| O002 | UECap, for NR\_ENDC\_RF\_Ph4 | 2 | Merging of 46-4, 46-5 | R2-25xxxxx | OPPO (Qianxi) |  | V002 | ToDo |

 **[Description]**: Clearly, 46-4 is a subset of 46-5, in the sense that 46-4 supports a smaller number of MPR reduction combination compared to 46-5. So, there is no need for UE to simultaneously report the support of 46-4 and 46-5.

**[Proposed Change]**: R2 implement 46-4 and 46-5 as two enumerate values of a same capability. If R2 cannot converge, ask R4 whether there is a reason that UE has to report the support of both 46-4 and 46-5 other than 46-5 only using a LS.

**[Comments]**:

# E038

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| RIL Id | WI | Class | Title | Tdoc | Delegate | Misc | File version | Status |
| E037 | LPWUS | 1 or 2 | Clarify the *minimumTimeGap-r19* capability signalling | R2-25xxx | Ericsson (Martin) |  | V006 | ToDo |

 **[Description]**:

RAN1 agreed:

Agreement

The 3 capabilities for UE’s wake-up delay in idle/inactive mode are defined as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| SSB periodicity (ms) | Wake-up delay (ms)UE capability 1 | Wake-up delay (ms)UE capability 2 | Wake-up delay (ms)UE capability 3 |
| 5/10/20 | 70 | 500 | 900 |
| 40 | 130 | 600 | 1000 |
| 80 | 250 | 800 | 1200 |
| 160 | 490 | 1200 | 1600 |

The MEGA 38.306 and 38.331 include:

- *minimumTimeGap-r19* indicates the minimum time gap between LP-WUS reception and UE to start PDCCH monitoring.

LPWUS-SupportedBandInfo-r19 ::= SEQUENCE {

 supportedBandIndicator-r19 FreqBandIndicatorNR,

 -- R1 62-1: LP-WUS operation in IDLE/INACTIVE mode based on OOK signal

 lpwus-OOK-r19 ENUMERATED {supported} OPTIONAL,

 -- R1 62-1a: LP-WUS operation in IDLE/INACTIVE mode based on OFDM overlaid sequence

 lpwus-OFDM-r19 ENUMERATED {supported} OPTIONAL,

 -- R1 62-1b: LP-SS based RRM measurement in IDLE/INACTIVE mode when LP-SS overlaid sequence is configured

 lpwus-LP-SS-r19 ENUMERATED {supported} OPTIONAL,

 minimumTimeGap-r19 SEQUENCE {

 wakeUpDelay-SSB-Periodicity-LessThan20ms-r19 ENUMERATED {ms70, ms500, ms900} OPTIONAL,

 wakeUpDelay-SSB-Periodicity-40ms-r19 ENUMERATED {ms130, ms600, ms1000} OPTIONAL,

 wakeUpDelay-SSB-Periodicity-80ms-r19 ENUMERATED {ms250, ms800, ms1200} OPTIONAL,

 wakeUpDelay-SSB-Periodicity-160ms-r19 ENUMERATED {ms490, ms1200, ms1600} OPTIONAL

 }

}

It is not clear whether the UE is required to send at least one wake-up delay for one SSB periodicity, or a wake-up delay for each possible SSB periodicity. Furthermore, what is the implication when the UE did not signal a wake-up delay for the configured SSB periodicity in the cell?

**[Proposed Change]**:

Based on offline discussion a proposal will be provided in a Tdoc.

**[Comments]**:

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