IoT TDD Comments file

Template:

# Xnnn

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| RIL Id | WI | Class | Title | Tdoc | Delegate | Misc | File version | Status |
| Xnnn | IoTTDD |  |  |  |  |  | vnnn | ToDo |

**[Description]**:

**[Proposed Change]**:

**[Comments]**:

Instructions:

1. Copy the template RIL comments fields above (including the Heading Xnnn)
2. Paste the RIL comments fields at its position while **respecting the order of the RILs in the Review file (i.e. keep the order of the spec).**
3. Fill in the fields, see R19 ASN.1 Guideline.
4. Companies may comment whether they agree or disagree.
5. Can copy spec text and use Word “Track changes”, etc.
6. Do not delete text added by other companies.

# V220

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| RIL Id | WI | Class | Title | Tdoc | Delegate | Misc | File version | Status |
| V220 | IoTTDD | 1 | Refine the sentence for the postponement of SI transmission | N | vivo (Stephen) |  | v004 | ToDo |

**[Description]**: In sub-clause 5.2.1.2a, the wording of the sentence describing the postponement of SI transmission is somewhat unclear. Currently, the phrase “one or more repetitions” is used to encompass both the first transmission of SI and its subsequent repetitions. In our understanding, “one repetition” does not represent the “first transmissions”. It is therefore suggested that the wording be refined to enhance clarity.

**[Proposed Change]**: We suggest using “first transmission and repetition” as the way for MIB and SIB1. For example,

The SI messages are transmitted within periodically occurring time domain windows (referred to as SI-windows) using scheduling information provided in *SystemInformationBlockType1-NB*. Each SI message is associated with a SI-window and the SI-windows of different SI messages do not overlap. That is, within one SI-window only the corresponding SI is transmitted. The length of the SI-window is common for all SI messages, and is configurable. For IoT NTN TDD mode, the first transmission of SI message and the repetitions that fall on the non-D subframes are postponed to the next valid D subframe within the SI-Window.

**[Comments]**:

# X501

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| RIL Id | WI | Class | Title | Tdoc | Delegate | Misc | File version | Status |
| X501 | IoTTDD | 2 | radioFrameOffset |  | Xiaomi (Xiaolong Li) |  | V002 | ToDo |

**[Description]**: According to the field description of *radioFrameOffset*, it should be the frame offset between the serving cell and the neighbour cell. However, *radioFrameOffset* is currently defined per satellite. This means that if a satellite has multiple cells, the *radioFrameOffset* for these cells must be configured to be the same, which is not reasonable.

**[Proposed Change]**: The *radioFrameOffset* is configured per cell in SIB4-NB and SIB5-NB.

**[Comments]**:

# V221

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| RIL Id | WI | Class | Title | Tdoc | Delegate | Misc | File version | Status |
| V221 | IoTTDD | 1 | Change Need code of *radioFrameOffset-r19* | N | vivo (Stephen) |  | v004 | ToDo |

**[Description]**: The Need OP is not intended for *radioFrameOffset-r19*, since no specified behavior exists for the absence of the field.

**[Proposed Change]**: Need OR is used.

**[Comments]**:

# Z051

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| RIL Id | WI | Class | Title | Tdoc | Delegate | Misc | File version | Status |
| Z051 | IoTTDD | 2 | Change the value of *radioFrameOffset-r19* | R2-25xxxxx | ZTE (Zhihong) |  | v005 | ToDo |

**[Description]**: Because the IoT TDD frame is repeated every 9 RFs, and the offset is counted as the nearest difference from the start of serving cell IoT TDD pattern and the neighbor cell IoT TDD pattern, the maximum value range applicable would be between [-4, 4].

**[Proposed Change]**: Change the value range of radioFrameOffset-r19 to integer (-4,4)

**[Comments]**:

# Z052

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| RIL Id | WI | Class | Title | Tdoc | Delegate | Misc | File version | Status |
| Z052 | IoTTDD | 1 | Update the field description of *radioFrameOffset-r19* | R2-25xxxxx | ZTE (Zhihong) |  | v005 | ToDo |

**[Description]**: Current field description define the offset as *number of frames,* ***between*** *the start of between the start of IoT NTN TDD pattern of serving cell and the start of the nearest IoT NTN TDD pattern of the neighbor cell,* which could lead to misunderstanding between UE and NW on the signalled offset one assumes the offset is counted from the start of serving cell IoT TDD pattern to start of neighbor cell IoT TDD pattern, while the other assumes offset is counted from the start of neighbor cell IoT TDD pattern to start of serving cell IoT TDD pattern

**[Proposed Change]**: Change the field description of radioFrameOffset-r19 to “Offset, in number of frames, from the start of IoT NTN TDD pattern of serving cell to the start of the nearest IoT NTN TDD pattern of the neighbor cell, at the uplink time synchronization reference point defined in clause 16.1.2 of TS 36.213 [6]. ”

**[Comments]**:

# Z053

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| RIL Id | WI | Class | Title | Tdoc | Delegate | Misc | File version | Status |
| Z053 | IoTTDD | 1 | Update the field description of *downlinkBitmapNonAnchor*  in *CarrierConfigDedicated-NB* | None | ZTE (Zhihong) |  | v005 | ToDo |

**[Description]**: *downlinkBitmapNonAnchor* is an optional IE in *CarrierConfigDedicated-NB*, since it is not used in IoT TDD, we can simply make it absence for IoT TDD.

**[Proposed Change]**: Change the field description of *downlinkBitmapNonAnchor* to “For IoT NTN TDD mode, this field is not signalled. ”

**[Comments]**:

# VZ054

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| RIL Id | WI | Class | Title | Tdoc | Delegate | Misc | File version | Status |
| Z054 | IoTTDD | 1 | Update the field description of *downlinkBitmapNonAnchor*  in *DL-CarrierConfigCommon-NB* | None | ZTE (Zhihong) |  | v005 | ToDo |

**[Description]**: *downlinkBitmapNonAnchor* is a mandatory IE in *DL-CarrierConfigCommon-NB*, the description ‘if this field is signalled’ is not needed in the field description. Plus, the useNoBitmap IE version is v14 instead of v16.

**[Proposed Change]**: Change the field description of *downlinkBitmapNonAnchor* to ‘For IoT NTN TDD mode, *useNoBitmap-r14* is used.’

**[Comments]**: