3GPP TSG-RAN WG4 Meeting # 109 R4-23xxxxx

Chicago, US, November 13 – 17, 2023

**Agenda item:** 10

**Source:** CMCC

**Title:** Rel-18 RAN4 UE feature list for NR

**Document for:** Approval

1. Introduction

This contribution includes the RAN4 UE feature list for Rel-18 NR.

1. NR\_ENDC\_RF\_FR1\_enh2

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| **Features** | **Index** | **Feature group** | **Components** | **Prerequisite feature groups** | **Need for the gNB to know if the feature is supported** | **Applicable to the capability signalling exchange between UEs (V2X WI only)”.** | **Consequence if the feature is not supported by the UE** | **Type****(the ‘type’ definition from UE features should be based on the granularity of 1) Per UE or 2) Per Band or 3) Per BC or 4) Per FS or 5) Per FSPC)** | **Need of FDD/TDD differentiation** | **Need of FR1/FR2 differentiation** | **Capability interpretation for mixture of FDD/TDD and/or FR1/FR2** | **Note** | **Mandatory/Optional** |
|  27. NR\_ENDC\_RF\_FR1\_enh2 | 27-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. NR\_channel\_raster\_enh

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| 28. NR\_channel\_raster\_enh | 28-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. NR\_RF\_FR2\_req\_Ph3

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| 29. NR\_RF\_FR2\_req\_Ph3 | 29-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. NR\_FR2\_multiRX\_DL

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| Features | Index | Feature group | Components | Prerequisite feature groups | Need for the gNB to know if the feature is supported | Applicable to the capability signalling exchange between UEs (V2X WI only)”. | **Consequence if the feature is not supported by the UE** | **Type****(the ‘type’ definition from UE features should be based on the granularity of 1) Per UE or 2) Per Band or 3) Per BC or 4) Per FS or 5) Per FSPC)** | Need of FDD/TDD differentiation | Need of FR1/FR2 differentiation | Capability interpretation for mixture of FDD/TDD and/or FR1/FR2 | Note | Mandatory/Optional |
| 30. NR\_FR2\_multiRX\_DL | 30-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. NR\_RRM\_enh3

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| 31. NR\_RRM\_enh3 | 31-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. NR\_MG\_enh2

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| 32. NR\_MG\_enh2 | 32-1 |  |   |  |  |  |  |  |  |  |  |  |  |

1. NonCol\_intraB\_ENDC\_NR\_CA

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| 33. NonCol\_intraB\_ENDC\_NR\_CA | 33-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. NR\_HST\_FR2\_enh

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| 34. NR\_HST\_FR2\_enh | 34-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. NR\_ATG

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| 35. NR\_ATG | 35-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. NR\_demod\_enh3

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| 36.NR\_demod\_enh3 | 36-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. NR\_pos\_enh2

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| 37.NR\_pos\_enh2 | 37-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. NR\_MC\_enh

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| **Features** | **Index** | **Feature group** | **Components** | **Prerequisite feature groups** | **Need for the gNB to know if the feature is supported** | **Applicable to the capability signalling exchange between UEs (V2X WI only)”.** | **Consequence if the feature is not supported by the UE** | **Type****(the ‘type’ definition from UE features should be based on the granularity of 1) Per UE or 2) Per Band or 3) Per BC or 4) Per FS or 5) Per FSPC)** | **Need of FDD/TDD differentiation** | **Need of FR1/FR2 differentiation** | **Capability interpretation for mixture of FDD/TDD and/or FR1/FR2** | **Note** | **Mandatory/Optional** |
| 38.NR\_MC\_enh | 38-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. NR\_Mob\_enh2

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| 39.NR\_Mob\_enh2 | 39-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. NR\_NTN\_enh

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| 40.NR\_NTN\_enh | 40-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. NR\_cov\_enh2

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| 41.NR\_cov\_enh2 | 41-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. Netw\_Energy\_NR

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| 42.Netw\_Energy\_NR | 42-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. NR\_DualTxRx\_MUSIM

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| 43.NR\_DualTxRx\_MUSIM | 43-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. 4Rx\_NR\_bands\_R18

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| 44.4Rx\_NR\_bands\_R18 | 44-1 |  |  |  |  |  |  |  |  |  |  |  |  |

1. R18\_3Tx\_NR\_CA\_ENDC

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| 45.R18\_3Tx\_NR\_CA\_ENDC | 45-1 |  |  |  |  |  |  |  |  |  |  |  |  |