**3GPP TSG RAN WG1 #122 R1-25nnnnn**

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

**Source: Ad-Hoc Chair (AT&T)**

**Title: Session Notes of AI** **9.1**

**Agenda Item: 9.1**

**Document for: Endorsement**

### 9.1 UE features for AI/ML for NR Air Interface

**Proposal: Adopt the following changes highlighted in chromatic fonts, while keeping the yellow highlighting, if any, as shown**

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| 58. NR\_AIML\_air | 58-0-1 | CSI report framework ~~for UE-side inference~~ | 1. Number of APU pools N  ~~1~~2. Maximum number of APUs in each APU pool ~~for all types of UE-sided inference~~ for CSI report(s) for simultaneously in a CC  ~~2~~3. Maximum number of APUs in each APU pool ~~for all types of UE-sided inference~~ for CSI report(s) simultaneously across all CCs | FFS | yes | n/a | Maximum number of APUs ~~for UE-sided inference~~ is unknown to the network | ~~FFS~~ Per UE | ~~FFS~~ N/A | ~~FFS~~ N/A | ~~FFS~~ N/A | Component 1 candidate values: {1,2}  Component 1 candidate values: ~~FFS~~{1…8}  Component 2 candidate values: ~~FFS~~{1…32} | Optional with capability signalling |

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| 58. NR\_AIML\_air | 58-1-1 | Increased number of reported RSs for beam management | 1. Support of reporting format for L1-RSRP measurements not including CRI/SSBRI other than one for the largest measured L1-RSRP in a reporting instance, if the number of reported L1-RSRPs is equal to the size of the measurement resource set.  2. Support of reporting format for L1-RSRPs and corresponding beam information of Top M beam(s) with largest M measured value(s) of L1-RSRP(s) of a measurement resource set, where M is configured by gNB, if the number of reported L1-RSRPs is smaller than the size of the measurement resource set  3. Maximum number of M reported RSs, M>4 | FFS | yes | n/a | Increased number of reported beams for beam management is not supported | ~~FFS~~ Per UE | ~~FFS~~ N/A | ~~FFS~~ N/A | ~~FFS~~ N/A | Component 3 candidate values: {6,8} | Optional with capability signalling |

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| 58. NR\_AIML\_air | 58-1-2 | UE-side beam prediction for BM Case1 ~~[~~for inference~~]~~ | 1. Support of beam prediction with reporting of predicted beam index for BM-Case1 ~~[~~for inference~~]~~ with UE-side model  3. Maximum number of inference report(s) configured for BM-Case1 per BWP  3a. Maximum number of inference report(s) configured for BM-Case1 across all CCs  ~~[4. Maximum number of inference report(s) activated for BM-Case1 per BWP]~~  ~~[4a. Maximum number of inference report(s) activated for BM-Case1 across all CCs]~~  ~~[5. Maximum number of inference report(s) triggered for BM-Case1 per BWP]~~  ~~[5a. Maximum number of inference report(s) triggered for BM-Case1 across all CCs]~~  6. Support of SSB as RS type for Set B  6a. Support of CSI-RS as RS type for Set B  6b. Support of SSB as RS type for Set A  6c. Support of CSI-RS as RS type for Set A  ~~[7. Supported combinations of the number of resources for Set B and the number of resources for Set A]~~  ~~[7a: Supported maximum number of resources for Set B]~~  ~~[7b: Supported maximum number of resources for Set A]~~  ~~[~~8. Supported CSI-RS resource types: Periodic CSI-RS, Semi-persistent CSI-RS, Aperiodic CSI-RS~~]~~  ~~[~~9. Supported inference report types: Periodic CSI report, Aperiodic CSI report, semi-persistent CSI report~~]~~  ~~[10. Supported options for performance monitoring for beam case 1 with UE side model]~~  ~~[~~11. Supported BM-Case 1 sub-usecase(s): {setB-subset-of-setA, setB-different-from-setA, both}  12. Supported maximum number of predicted beams in each reporting instanceFFS: whether/how to merge this FG with other FG(s) for performance monitoring and/or data collection  13. Supported number of occupied CPU if *nroftimeinstance-r19* is not configured  14. Supported number of occupied APU if *nroftimeinstance-r19* is not configured  15. Supported value of d for the relaxation of Z3 timeline if *nroftimeinstance-r19* is not configured  16. Supported value of d’ for the relaxation of Z’3 timeline if *nroftimeinstance-r19* is not configured  17. Index about which APU resource pool is CPU\_2 | FFS | yes | n/a | UE-side~~d~~ beam prediction for BM Case 1 ~~[~~for inference~~]~~ is not supported | FFS | FFS | FFS | FFS | ~~FFS: CPU/AIMLPU related information~~ | Optional with capability signalling |

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| 58. NR\_AIML\_air | 58-1-3 | UE-side beam prediction for BM Case1 with predicted RSRP ~~[~~for inference~~]~~ | 1. Support of beam prediction, reporting of predicted beam index and predicted RSRP, for BM-Case1 ~~[~~for inference~~]~~  2. Supported maximum number of predicted beams with RSRP in each reporting instance  3. The number of additional symbols, di, between the last symbol of SSB/CSI-RS and the first symbol of the transmission channel containing predicted beam report, where i is the index of SCS, i=1,2,3,4 corresponding to 15,30,60,120 kHz SCS  4. The number of additional symbols, di’, between the last symbol of SSB/CSI-RS and the first symbol of the transmission channel containing predicted beam, where i is the index of SCS, i=1,2,3,4 corresponding to 15,30,60,120 kHz SCS | 58-1-2 | yes | n/a | UE-side beam prediction for BM Case 1 with predicted RSRP ~~[~~for inference~~]~~ is not supported | FFS | FFS | FFS | FFS | Component 2 candidate values: {1, 2, 3, 4}  ~~FFS: CPU/AIMLPU related information~~ | Optional with capability signalling |

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| 58. NR\_AIML\_air | 58-1-4 | UE-side beam prediction for BM Case2 ~~[~~for inference~~]~~ | 1. Support of beam prediction with reporting of predicted beam index for BM-Case2 ~~[~~for inference~~]~~ with UE-side model  3. Maximum number of inference report(s) configured for BM-Case2 per BWP  3a. Maximum number of inference report(s) configured for BM-Case2 across all CCs  ~~[4. Maximum number of inference report(s) activated for BM-Case2 per BWP]~~  ~~[4a. Maximum number of inference report(s) activated for BM-Case2 across all CCs]~~  ~~[5. Maximum number of inference report(s) triggered for BM-Case2 per BWP]~~  ~~[5a. Maximum number of inference report(s) triggered for BM-Case2 across all CCs]~~  6. Support of SSB as RS type for Set B  6a. Support of CSI-RS as RS type for Set B  6b. Support of SSB as RS type for Set A  6c. Support of CSI-RS as RS type for Set A  ~~[7. Supported combinations of the number of resources for Set B and the number of resources for Set A]~~  ~~[7a: Supported maximum number of resources for Set B]~~  ~~[7b: Supported maximum number of resources for Set A]~~  ~~[8. Supported CSI-RS resource types: Periodic CSI-RS, Semi-persistent CSI-RS]~~  ~~[~~9. Supported inference report types: Periodic CSI report, Aperiodic CSI report, semi-persistent CSI report~~]~~  ~~[10. Supported options for performance monitoring for beam case 2 with UE side model]~~  11. Supported maximum number of predicted beams in each predicted time instance  12. Supported maximum number of predicted time instances  ~~[~~13. Supported maximum total number of reported predicted beams for predicted time instances in one report~~]~~  14. Supported combinations of supported value(s) of valid time duration for each predicted time instance and number of predicted beams for each value of valid time duration  ~~[20. Supported BM-Case 2 sub usecase(s): e.g., setB-equals-to-setA, setB-subset-of-setA, setB-different-from-setA, or merged version(s)]~~  21. supported number of occupied CPU if *nroftimeinstance-r19* is configured  22. supported number of occupied APU if *nroftimeinstance-r19* is configured  23. supported value of d for the relaxation of Z3 timeline if *nroftimeinstance-r19* is configured  24. supported value of d’ for the relaxation of Z’3 timeline if *nroftimeinstance-r19* is configured  25. Index about which APU resource pool is CPU\_2 | FFS | yes | n/a | UE-side beam prediction for BM-Case2 ~~[~~for inference~~]~~ is not supported | FFS | FFS | FFS | FFS | ~~FFS: CPU/AIMLPU related information~~  FFS: candidate values for components | Optional with capability signalling |

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| 58. NR\_AIML\_air | 58-1-5 | UE-side beam prediction for BM-Case2 with predicted RSRP ~~[~~for inference~~]~~ | 1. Support of beam prediction, reporting of predicted beams and predicted RSRP, for BM-Case2 (spatial and time domain beam prediction) ~~[~~for inference~~]~~  2. Supported maximum number of predicted beams with RSRP in each predicted time instance  3. Supported maximum total number of predicted beams with RSRP for predicted time instances in one report  4. Supported maximum number of predicted time instances  5. Supported value(s) of time gap between predicted time instances  6. The number of additional symbols, di, between the last symbol of SSB/CSI-RS and the first symbol of the transmission channel containing predicted beam report, where i is the index of SCS, i=1,2,3,4 corresponding to 15,30,60,120 kHz SCS  7. The number of additional symbols, di’, between the last symbol of SSB/CSI-RS and the first symbol of the transmission channel containing predicted beam, where i is the index of SCS, i=1,2,3,4 corresponding to 15,30,60,120 kHz SCS | 58-1-4 | yes | n/a | UE-side beam prediction for BM-Case2 ~~[~~for inference~~]~~ is not supported | FFS | FFS | FFS | FFS | ~~FFS: CPU/AIMLPU related information~~ | Optional with capability signalling |

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| 58. NR\_AIML\_air | 58-1-7 | Data collection for UE-side beam prediction ~~[for BM case 1]~~ | 1. Support of data collection for UE-side beam prediction ~~[for BM case 1]~~  2. Support of SS/PBCH block and 1-port CSI-RS based RSRP measurements for measurement RS resource sets (Set B and Set A) for data collection  ~~[~~3. Supported sub-use cases~~: {‘Set B equal to Set A’, ‘Set B subset of Set A’,’Set B not a subset of Set A’}]~~  ~~[~~6: Supported maximum number of resources for Set B~~]~~  ~~[~~7: Supported maximum number of resources for Set A~~]~~  8. Support of SSB as RS type for Set B  9. Support of CSI-RS as RS type for Set B  10. Support of SSB as RS type for Set A  11. Support of CSI-RS as RS type for Set A | FFS | yes | n/a | Data collection for UE-side beam prediction is not supported ~~[for BM case 1]~~ | ~~FFS~~ Per UE | ~~FFS~~ N/A | ~~FFS~~ N/A | ~~FFS~~ N/A | Component 3 candidate values: {‘Set B equal to Set A’, ‘Set B subset of Set A’,’Set B not a subset of Set A’}  Component 6 candidate values: {4, 8, 16, 32, 64}  Component 7 candidate values: {8, 16, 32, 48,  Note: it is up to RAN2 whether this FG is merged into data collection FG defined by RAN2 | Optional with capability signalling |

**Proposal: Introduce the following Rel. 19 UE FGs (yellow highlighting, if any, shows text that’s not yet agreed)**

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| 58. NR\_AIML\_air | 58-1-6 | Performance monitoring for UE-sided model | 1. Support of performance monitoring with RS-PAI of AI/ML model for beam prediction.  2. Maximum total number of the configured CSI-RS resources for monitoring RS resource set  3. Maximum number of periodic CSI report setting per BWP for monitoring reporting  4. Maximum number of aperiodic CSI report setting per BWP for monitoring reporting  5. Maximum number of semi-persistent CSI report setting per BWP for monitoring reporting  6. Supported values of configured transmission occasion N  7. Supported sub usecase of monitoring RS resource set C: { setC-equals-to-setA, setC-subset-of-setA, both}  8.Supported periodicity of performance monitoring report | FFS | yes | n/a | Performance monitoring for UE-sided model is not supported | FFS | FFS | FFS | FFS | FFS: Further partitioning of this FG based on existing and future agreements  FFS: separate rows/FGs for case 1 and case 2 | Optional with capability signalling |

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| 58. NR\_AIML\_air | 58-1-8 | Consistency between model training and inference | 1.Supported maximum number of associated IDs | FFS | yes | n/a | Consistency between model training and inference is not supported | FFS | FFS | FFS | n/a |  | Optional with capability signalling |

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| 58. NR\_AIML\_air | 58-1-9 | APU for AI/ML based processing | 1.Supported number of APU pools for AI based processing  2. Supported maximum number of APUs for each APU pool. | FFS | yes | n/a | APU for AI/ML based processing is not supported | FFS | FFS | FFS | n/a | candidate values for Component 1: {1, 2} | Optional with capability signalling |

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| 58. NR\_AIML\_Air | 58-3-1 | CSI prediction for UE-sided inference when N4=1 | 1. Support of CSI prediction for UE-sided inference when N4=1  2. Support for reporting predicted PMI with N4=1  3. A list of supported combinations, each combination is { Max # of Tx ports in one resource, Max # of resources and total # of Tx ports} across all CCs in a band when reported per band, and across all CCs in a band combination when reported per BC simultaneously  4. Support of Rel-16 eType-II regular codebook refinement for predicted PMI with PMI subband R=1  5. Support parameter combinations with L=2,4  6. Support for rank = 1,2  7. Support for the size of DD-basis, N4=1  8. Support X=1 CQI based on the first/earliest slot of the CSI reporting window and the first/earliest predicted PMI (TDCQI=’1-1’)  ~~[~~9. Value for CPU occupation, when P/SP-CSI-RS is configured for CMR~~]~~  ~~[~~10. Value for CPU occupation, when A-CSI-RS is configured for CMR~~]~~  11. Scaling factor for active resource counting Kp  **Alt. 1**  12. The number of additional symbols, t\_i, between the last symbol of CSI-RS and the first symbol of the transmission channel containing predicted CSI report, where i is the index of SCS, i=1,2,3,4 corresponding to 15,30,60,120 kHz SCS  13. The number of additional symbols, t\_i’, between the last symbol of CSI-RS and the first symbol of the transmission channel containing predicted CSI report, where  i is the index of SCS, i=1,2,3,4 corresponding to 15,30,60,120 kHz SCS  **Alt. 2**  12. supported value of t for the relaxation of Z and Z’ timeline  14. Index about which APU resource pool is CPU\_2 | ~~2-35~~ 58-0-1 | yes | n/a | CSI prediction for N4=1 for inference is not supported | ~~[~~Per band and Per BC~~]~~ | n/a | n/a | n/a | Component 3 candidate values:  a. {4,8,12,16,24,32}  b. {2,3,4 … 64}  c. {4, …, 256}  Compontent 9 candidate values when P/SP-CSI-RS is configured for CMR:  O\_CPU=M, M∈{0,1,2,3,4}  O\_APU=N, N∈{0,1,2,3,4}  Compontent 10 candidate values:  - when A-CSI-RS is configured for CMR and K<12, where where K is the number of A-CSI-RS resources  O\_CPU=M=Y\_1 K, Y\_1∈{0,1,2,3}  O\_APU=N=X\_1 K,  X\_1∈{0,1,2,3}  - when K=12  O\_CPU=M, M={0…8}  O\_APU=N, N={0…8} | Optional with capability signalling |

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| 58. NR\_AIML\_Air | 58-3-1-7 | Active CSI-RS resources and ports for mixed R16 based doppler codebook for CSI prediction via UE side model with other codebooks in any slot | 1. List of codebook combinations of two types  2. List of {max number of ports per resource, max number of resources, max number of total ports} for each codebook combination | 23-9-1, 16-3a, 2-36, 2-40, 2-41, 23-9-2, 23-9-4, 40-3-2-1, 40-3-2-1a, 40-3-2-2, X-1-1, X-1-1a, X-1-2 | Yes | n/a | Active CSI-RS resources and ports for mixed R16 based doppler codebook for CSI prediction via UE side model with other codebooks in any slot is not supported | Per band and Per BC | n/a | n/a | n/a | Component 1 candidate values: ~~FFS~~  {Type I SP, CSI prediction for UE-sided inference when N4=1 and R=1}  {Type I SP, CSI prediction for UE-sided inference when N4>1 and R=1}  {eType II R=1, CSI prediction for UE-sided inference when N4=1 and R=1}  {eType II R=1, CSI prediction for UE-sided inference when N4>1 and R=1}  Component 2 candidate values: ~~FFS~~  - Maximum 16 triplets  - Max # of Tx ports in one resource: {4,8,12,16,24,32}  - Max # resources: {1 to 64}  - Max # total ports: {4 to 256}  Note: if a UE reports one or more codebook combinations in 58-3-1-7, then usage of active CSI-RS resources and ports for multiple codebooks in any slot is allowed only within those combinations  Note: For coexisting of mixed codebooks in any slot, gNB need to honor 16-8, 23-9-5, 58-3-1-7 and per-codebook capability 2-36/40/41, 16-3a, and 23-9-1/23-9-2/23-9-4.  ~~[Note: Up to 4 combinations for component 1]~~ | Optional with capability signaling |

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| 58. NR\_AIML\_Air | 58-3-2 | CSI prediction for UE-sided inference when N4>1 | 1. Support of CSI prediction for UE-sided inference when N4>1  2. Support for reporting predicted PMI with N4>1  3. A list of supported combinations, each combination is {Max N4, Max # of Tx ports in one resource, Max # of resources and total # of Tx ports} across all CCs in a band when reported per band, and across all CCs in a band combination when reported per BC simultaneously  4. Value of d=m for the DD unit size when A-CSI-RS is configured for CMR  5. Support for the size of DD-basis, N4>1  7. A list of supported combinations, each combination is {Max N4, Max # of Tx ports in one resource, Max # of resources and total # of Tx ports} for one CSI report setting  ~~[~~8. Supported values of the maximum number of observation number~~]~~ | 58-3-1 | yes | n/a | CSI prediction for N4>1 for inference is not supported | ~~[~~Per band and Per BC~~]~~ | ~~FFS~~ N/A | ~~FFS~~ N/A | ~~FFS~~ N/A | ~~FFS: CPU/AIMLPU related information~~  Component 3 candidate values: ~~FFS~~  a. {1,2,4,8}  b. {4,8,12,16,24,32}  c. {2,3,4 … 64}  d. {4, …, 256}  Component 7 candidate values:  a. {1,2,4,8}  b. {4,8,12,16,24,32}  c. {4,8,12}  d.{4, …, 256} | Optional with capability signalling |

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| 58. NR\_AIML\_Air | 58-3-4 | UE side data collection for CSI prediction | 1. Support of data collection for CSI prediction | FFS | yes | n/a | UE side data collection for CSI prediction is not supported | ~~FFS~~ Per band and Per BC | ~~FFS~~ N/A | ~~FFS~~ N/A | ~~FFS~~ N/A |  | Optional with capability signalling |

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| 58. NR\_AIML\_Air | 58-3-3 | Aperiodic CSI report timing relaxation | Support of aperiodic CSI report time relaxation is equal to t + Z/Z’ | 58-3-1, 58-3-2 | Yes | n/a | Aperiodic CSI report timing relaxation is not supported | FFS | FFS | FFS | FFS |  | Optional with capability signalling |

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| 58. NR\_AIML\_Air | 58-3-5 | Performance monitoring for CSI prediction model | 1. Performance metric SGCS  2. One wideband frequency gruanularity SGCS per layer  3. One monitoring resource set  4. One configured time instance for N4>1  5. A list of supported combinations, each combination is { Max # of Tx ports in one resource, Max # of resources and total # of Tx ports} across all CCs in a band when reported per band, and across all CCs in a band combination when reported per BC simultaneously | 58-3-1 | Yes | n/a | Performance monitoring for CSI prediction model is not supported | FFS | FFS | FFS | FFS |  | Optional with capability signalling |

R1-2505179 UE Features for Rel-19 AI/ML for NR Air Interface Ericsson Telecom S.A. de C.V.

R1-2505189 UE features for AI/ML for NR Air Interface Nokia

R1-2505334 Discussion on UE features for AI/ML for NR Air Interface CATT, CICTCI

R1-2505343 UE features for AI/ML for NR air interface Huawei, HiSilicon

R1-2505394 UE features for AI/ML for NR Air Interface vivo

R1-2505443 Discussion on UE features for AI/ML for NR Air Interface Xiaomi

R1-2505489 Discussion on UE features for AI/ML for NR Air Interface ZTE Corporation, Sanechips

R1-2505560 Remaining issues on UE features for AI/ML for NR air interface Samsung

R1-2505667 Views on Rel-19 UE features for AI/ML for NR Air Interface Ofinno

R1-2505734 UE features for AIML for NR air interface OPPO

R1-2505818 Discussion on UE features for AI/ML for NR Air Interface LG Electronics

R1-2505893 Views on UE features for AI/ML for NR Air Interface Apple

R1-2505899 Views on UE features for Rel-19 IoT-NTN TDD mode Apple

R1-2506086 Discussion on UE features for AI/ML for NR air Interface CMCC

R1-2506195 UE features for AI/ML for NR air interface Qualcomm Incorporated

R1-2506226 Summary of UE features for AI/ML for NR Air Interface Moderator (AT&T)

R1-2506284 Discussion on UE features for AI/ML for NR Air Interface NTT DOCOMO, INC.