**3GPP TSG RAN Meeting #108 RP-25xxxx**

**Prague, Czech Republic, June 9-13, 2025**

## Status Report to TSG

**Agenda item:** 9.2.4

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| --- | --- | --- | --- | --- | --- |
| **WI / SI Name** | Study on AI (Artificial Intelligence)/ML (Machine Learning) for mobility in NR | | | | |
| included in this status report | Study Item:  Yes | Core part:  No | Performance part:  No | | Testing part:  No |
| **Acronym** | FS\_NR\_AIML\_Mob | | | | |
| **Unique ID** | 1020084 | | | | |
| **TSG Tdoc of latest approved WI/SI description (if any)** | RP-242393 | | | | |
| **Target Completion Date**  **(indicate if changed)** | Study Item:  09/2025 | Core part:  N/A | Performance part:  N/A | Testing part:  N/A | |
| **Overall Completion level** | Study Item:  90% | Core part:  N/A | Performance Part:  N/A | Testing part:  N/A | |

Note: Overall completion level percentage numbers should use one of the colors below:

* xx%: Normal progress, no RAN plenary action needed
* xx%: Progress behind schedule, may need RAN plenary intervention. If so, SR should clearly define requested action
* xx%: Progress critically behind, RAN plenary shall intervene. SR should define requested action

**Source:**

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| --- | --- | --- |
| **Leading WG** | | RAN WG2 |
| **Rapporteur** | **Name** | Zhongda Du |
| **Company** | OPPO |
| **Email** | duzhongda@oppo.com |

## 1 Work plan related evaluation

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| --- | --- |
| **Do you want to modify the time budget for this WI/SI compared to what was endorsed at the last RAN meeting?** | No |

*If you answered No: Then please remove the Excel file from the zip file of this status report.*

*If you answered Yes: Then please fill out the attached Excel template to request a modification of the time budgets for your WI /SI. The Excel table has to be filled out for all affected RAN WGs and up to the target date of the WI/SI. The basis are the endorsed time budgets of the last RAN meeting. Please highlight all changes of the values.  
 One time unit (TU) corresponds to ~ 2 hours in the meeting.  
 If this status report covers a WI with Core and Performance part, then please have one line for each in the attached Excel table.  
 Note: If no Excel table is attached, then this means no time budget change.*

**Additional explanations/motivations for the time budget changes in the attached Excel table:**

## 2. Detailed progress in RAN WGs since last TSG meeting (for all involved WGs)

NOTE: Agreements and Open issues impacted cross-TSG aspects shall be explicitly highlighted

## 2.1 RAN1

#### 2.1.1 Agreements

#### 2.1.2 Remaining Open issues

## 2.2 RAN2

#### 2.2.1 Agreements

**RAN2#129bis agreements:**

R2-2501822 Text proposal of TR 38.744 OPPO pCR Rel-19 38.744 0.0.7 FS\_NR\_AIML\_Mob

* The TR is endorsed and will be further revised post meeting

**Agreements**

1. For Case A and B temporal domain prediction in FR1 and FR2, RAN2 to capture the observation that it is generalizable for the studied cases over cell configurations with different deployment scenarios
2. For Case A and B temporal domain prediction in FR1 and FR2, RAN2 to capture the observation that GC#2 slightly improves the accuracy of the AI/ML model compared to GC#1, while offering comparable accuracy as baseline.
3. For intra-frequency temporal domain prediction in FR1/FR2, the model trained in UMi scenario shows better prediction accuracy when tested in UMa scenario than the model trained in UMa scenario when tested in UMi scenario
4. No more generalization work is expected

**Agreements on measurement event prediction**

1. Option 2 and Option3 outperform legacy solutions in terms of HO failure number per UE per second

2. Capture that most companies show in their simulation results that option 3 outperforms option 2 when prediction accuracy is good enough. There are some companies that show the opposite and indicate why.

3 For FR2 to FR2 intra-frequency temporal domain case A (Case 4), F1 score is higher for shorter TTT values of the predicted event.

4 From the small number of companies that provided results for direct prediction: Both direct event prediction and indirect prediction methodologies demonstrate a reduction in HOF number per UE per second when compared to the legacy approach at the system level performance.

5 No further simulation results are expected for future meetings

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| **Agreements**  1. The general LCM framework for beam management can be the baseline (where applicable) for AI mobility, such as the following aspects:   * Data collection for model training * UE capability * Applicability reporting * Inference configuration and reporting * Performance monitoring and management   2 Only functionality-based LCM is considered for AI/ML mobility (i.e. we don’t support model based LCM) |

Agreements

* For RRM prediction, UE sided model, the UE can be configured with periodic or event triggered reporting of predicted and/or actual RRM measurements. FFS details
* For event prediction, UE-sided model, the UE can be configured with event-triggered reporting based on prediction and/or actual measurements. FFS details
* Baseline is that this applies to all A1-6 events, unless technical problems are identified. Baseline quantity is RSRP.

**Agreements**

1. The inference configuration and reporting for AI/ML mobility can be based on RRM measurement framework
2. For AI/ML for mobility, UE can report the applicable functionalities to NW via UAI or RRCReconfigurationComplete message.
3. FFS whether association ID is required and should provide motivation on per use case bases
4. As a baseline, use the AI ML PHY NW-side data collection procedures, configuration and reporting framework.
5. Study UE side data collection configuration, taking AI ML PHY relevant procedure as baseline. Postpone UE side data collection transfer discussion until further progress is made in AI ML PHY in R20.
6. Model transfer will not be discussed in this study item

7 For UE sided model, the performance monitoring considered in AIML air interface can be studied as a baseline for AIML aided mobility, i.e. NW-side and UE-sided performance monitoring.

FFS metrics per use case

**RAN2#130 agreements:**

R2-2503541 Text proposal of TR 38.744 OPPO pCR Rel-19 38.744 0.0.8 FS\_NR\_AIML\_Mob

* The TP is endorsed and will be further updated with RAN2#130 agreements

**Agreements**

1 The scenario of intra-frequency spatial domain prediction (in cell dimension) is not considered by the UE-side model in 5G. RAN2 assumes that a network-sided model requires no specification impacts. Intra-frequency spatial domain prediction (in cell dimension) involves measuring one or more cells as input to the model to derive L3 filtered cell-level measurements for the same time instance of another cell(s).

2 The specification impact of intra-frequency spatial domain prediction in beam dimension will be studied by RAN2 for both UE-side and network-side model.

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| **Agreements**   1. Use the beam management agreements as the baseline, including the following aspects (details can be updated after further progress is made in AI/ML PHY BM use case)   • Consider Option A and Option B like scheme (if/when AI/ML PHY makes further progress)  • Upon receiving a full inference configuration, the UE sends the initial applicability report in RRCReconfigurationComplete. UAI can be sent to update applicability.  • Upon receiving one or more full inference configuration(s) via RRCReconfiguration message, UE shall maintain all the full inference configuration(s) no matter the full inference configuration is applicable or inapplicable until the network releases it explicitly.  • Support the explicit reporting of applicability/inapplicability in the initial report and subsequent reporting when the applicability changes.  • Together with inapplicability reporting, UE further indicates a simple cause value of inapplicability (FFS pending AI/ML PHY progress).  • No prohibit timer is introduced.   1. Associated ID should be optionally configurable for training and inference (i.e. it may not mandatorily required for all training/inference configurations). FFS for WI phase further details (what absence means, which use case, whether it is per cell or multiple cells/frequency, terminology). |

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| **Agreements**   1. The following potential “inference parameters” can be considered for inference/measurement configuration, which provides the necessary information for UE to examine the applicability, it may contain   • PW length (for temporal case A)  • Skipping pattern (e.g. SSB config that indicates SSBs transmitted) (optional). MRRT (for temporal case B ) not discussed in study item, but if RAN4 says otherwise can be considered in WI  • Measured and predicted beam pattern (optional). MRRS (for spatial domain prediction) not discussed in study item, but if RAN4 says otherwise can be considered in WI  • Measured and predicted frequency (For inter-freq domain prediction)   1. Model related choices (i.e., cluster-based vs. cell-based, L1 filtering, RRM sub-use cases, OW length, direct vs. indirect) can be up to UE implementation unless a requirement is identified to specify them. |

**Agreements**

1. For network-side RRM measurement prediction, the legacy RRM measurement configuration and RRM measurement reporting framework can be used. For L1-filtered beam-level RSRP reporting can be configured by setting co-efficient to zero. FFS if there are specification impacts to support subcase 1 and 3 (if supported) and interference for cell level prediction.
2. To support cell/beam level prediction, one enhancements is to report RRM measurement results per cell at multiple time instances in one measurement report for NW-sided model.

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| **Agreements**  For the collection of data for the training of a network-sided model for RRM measurement prediction:   1. UE can be configured to log, at a certain logging periodicity, one or more of the following:  * L3 cell level measurements, * L3 beam level measurements, * L1-filtered beam level measurements (if sub-case 1 and 3 is supported) * Cell ID (FFS CGI of serving cell. If CGI is unavailable, or for neighboring cells the UE logs PCI-ARFCN as a fallback) * Time info (if as agreed by AI/ML and/or if needed)  1. The UE configuration is provided via the RRM measurement framework. Whether we reuse existing measconfig structure or we need a separate data logging configuration is for WI phase. Required enhancements are FFS. 2. The UE can be configured with a L3 event for determining when logging is to be performed. When the event conditions are fulfilled, it performs the logging with the logging periodicity. 3. The UE sends availability indication of collected logged data via UAI or RRCReconfigurationComplete message for HO case. 4. The availability indication can be triggered due to:  * full buffer being reached (if configured), (FFS if buffer is per use case) * buffer threshold being reached (if configured), or (FFS if buffer is per use case) * low power (if configured)  1. Upon sending the availability indication, UE indicates:  * Data is available * Reason for the triggering of the availability indication (full buffer. Threshold) * Low power indication  1. The UE sends the collected data upon explicit/on-demand request from the network (using UEInformationRequest/Response signaling) 2. The UE keeps the collected data upon HO, unless explicitly indicated to release it by the network (e.g., during HO). 3. The UE releases the collected data upon transitioning to IDLE/INACTIVE 4. For RLF case, capture in the TR that for mobility keeping the data during RLF can be beneficial. It can be up to WI phase if this is done depending on whether a simple solution can be found   For UE sided data collection – use AI/ML PHY request/configuration framework as baseline. FFS enhancements/or differences |

**Agreements**

1. RAN2 confirms that UE will not be informed about any network-sided functionality management decision (e.g., selection, (de)activation, switching, fallback, etc.) for AI mobility use case
2. For performance monitoring of NW-side model, UE can provide the label data (i.e., actual measurement results) for gNB. The existing measurement/report configuration can be reused to configure UE to report the actual measurement
3. FFS on UE awareness and preference for NW sided model

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| **Agreements**  1 For UE-sided model, NW-sided monitoring, the performance monitor procedure contains   * NW sends monitoring configuration and inference configuration to UE. * UE reports measurements and inference output based on the corresponding configurations to NW. * NW performs monitoring and makes decisions, which can be fully NW-implemented.   2 For UE-sided model, UE-sided monitoring, the performance monitor procedure as baselined contains   * NW sends monitoring configuration to UE * UE measures monitoring data and generates monitoring results by comparing inference output and monitoring data. * (NW-decision): UE reports the monitoring result to NW, and NW makes the management decision.  1. Can further consider UE sided monitoring and (UE-decision) for some use cases: UE makes the management decision based on network configuration and sends the decision to NW. FFS which use cases. 2. For RRM measurement prediction    1. RSRP differences can be used as the performance metric for monitoring. |

#### 2.2.2 Remaining Open issues

Open issues on spec impact:

1, UE capability procedure

2, LCM procedures related to RRM measurement prediction (L3 cell level sub case 1 and 3), measurement event prediction and L3 beam level prediction

3, Data collection for UE sided model

## 2.3 RAN3

#### 2.3.1 Agreements

#### 2.3.2 Remaining Open issues

## 2.4 RAN4

#### 2.4.1 Agreements

**RAN4#114bis agreements:**

RAN4 requirements for RRM Measurement prediction

**Issue 2-1-4: Need of Relative RSRP accuracy**

Agreement:

RAN4 to consider both Absolute RSRP and Relative RSRP accuracy as the candidate metrics for RRM prediction use case.

**Issue 2-1-1: Relative RSRP accuracy definition**

Agreement:

* For intra-frequency L3-RSRP,
  + Accuracy of predicted relative L3-RSRP = (reported predicted L3-RSRP of cell 1 – reported predicted RSRP of cell 2) – (ground truth of RSRP of cell 1 – ground truth of RSRP of cell 2), where cell 1 and cell 2 are on the same frequency, or
  + Accuracy of predicted relative L3-RSRP = (reported predicted L3-RSRP of beam 1 – reported predicted RSRP of beam 2) – (ground truth of RSRP of beam 1 – ground truth of RSRP of beam 2), where beam 1 and beam 2 are from the same cell.
    - FFS if this definition will be needed.
* For inter-frequency L3-RSRP,
  + Accuracy of predicted relative L3-RSRP = (reported predicted L3-RSRP of cell 1 – reported predicted RSRP of cell 2) – (ground truth of RSRP of cell 1 – ground truth of RSRP of cell 2), where cell 1 is on a different frequency than cell 2 but in the same FR as cell 2, if cell 1 and cell 2 are the target cells for AI/ML-based L3-RSRP inference.
  + Accuracy of predicted relative L3-RSRP = (reported predicted L3-RSRP of cell 1 – reported RSRP of cell 2) – (ground truth of RSRP of cell 1 – ground truth of RSRP of cell 2), where cell 1 is on a different frequency than cell 2 but in the same FR as cell 2, [if cell 1 is the target cell for AI/ML-based L3-RSRP inference based on the measurements on cell 2].
    - Depending on the agreement on ground truth definition, we may revisit relative RSRP accuracy definition.
    - FFS: whether the reported RSRP of cell2 can be predicted or measured or a combination of both predicted and measured samples.
* FFS, if there is any impact on this definition for different scenarios/different frequency ranges.

**Issue 2-1-6: Impacts on beam/cell level measurements**

Agreement:

* For Rel. 19 study:
* RAN4 to not consider L1 beam-level (Point A1) measurement prediction.

**Issue 2-1-8: Inter-frequency prediction scenario**

Agreement:

* RAN4 to study the factors potentially impacting RSRP prediction accuracy for inter-frequency prediction scenario considering at least the following aspects:
  + the side condition of frequency prediction (e.g., EPRE difference)
  + the impact of correlation coefficient between measured and predicted frequency layers
  + impact of cluster approach, e.g.,
    - When measurement from single cell in one carrier frequency is used by the UE as an input to predict the RRM measurement for the intra-FR and co-located cell in another carrier frequency.
    - When measurement from a group of cells in one carrier frequency is used by the UE as an input to predict the RRM measurement for the intra-FR and co-located cell in another carrier frequency.

**Issue 2-1-5: Ground truth definition for RSRP Accuracy for FR1**

Agreement:

During the SI, RAN4 to provide analysis on potential issue and possible solution to the two Alternatives. If RAN4 cannot make decision during the SI phase, RAN4 will discuss in the WI phase.

* At least capture the definition of the two Alternatives in the TR.

RAN4 requirements for measurement event prediction

**Issue 3-1-1: Prioritization of cases for event prediction**

Agreement:

* RAN4 should discuss both indirect and direct cases. If any prioritization will be agreed in RAN2, RAN4 to follow RAN2 prioritization

**Issue 3-1-2: Performance metric for event prediction use case**

Agreement:

* Potential RRM requirement impact for event prediction use case - for indirect case:
* RAN4 to study the requirement for the predicted event triggered reporting
  + RAN4 to study the requirement for [delay and accuracy]
  + RAN4 to discuss the metric for the event prediction
* Additionally, if the report includes the predicted RSRPs [corresponding to the predicted event occurrence time],
  + Candidate options:
    - Option 1: RAN4 will define requirement for the predicted RSRPs
    - Option 2: RAN4 will not define requirement for the predicted RSRPs

Testability and interoperability

**Issue 4-1-2: Prediction consistency in time domain**

Agreement:

* To ensure prediction consistency in time domain, RAN4 to discuss how to model different time-varying characteristics per cell/site due to moving UE trajectories.
  + Discuss how to incorporate controlled randomness and the extent of time-domain variation and correlation
  + RAN4 to prioritize discussion on FR1.

**Issue 4-1-3: Multiple cells in the testing setup**

Agreement:

* RAN4 to consider two cells: serving cell and another/target cell for intra-cell RRM measurement prediction/event prediction.
* FFS: RAN4 to study if more than 2 cells are needed for inter-cell RRM measurement prediction/event prediction.

**RAN4#115 agreements:**

RAN4 requirements for RRM Measurement prediction

**Issue 2-1: Relative RSRP accuracy definition**

Agreement:

* For intra-frequency L3-RSRP,
  + Relative accuracy of predicted L3-RSRP = (reported predicted L3-RSRP of cell 1 – reported RSRP of cell 2) – (ground truth of RSRP of cell 1 – ground truth of RSRP of cell 2),
    - cell 1 and cell 2 are on the same frequency
    - the reported RSRP of cell2 can be measured or predicted.
    - FFS on whether and how to consider time difference between the two reported RSRPs when applying the definition of the relative RSRP accuracy
  + Relative RSRP accuracy for Beam level measurements is FFS during WI phase depending upon RAN2 progress.
* For inter-frequency L3-RSRP,
  + Relative accuracy of predicted L3-RSRP = (reported predicted L3-RSRP of cell 1 – reported RSRP of cell 2) – (ground truth of RSRP of cell 1 – ground truth of RSRP of cell 2),
    - cell 2 is on a different frequency than cell 1 but in the same FR as cell 1
    - the reported RSRP of cell2 can be measured or predicted.
    - FFS on whether and how to consider time difference between the two reported RSRPs when applying the definition of the relative RSRP accuracy

**Issue 2-5: Impacts on beam/cell level measurements**

Agreement:

Consider L3 beam-level (Point E) measurement prediction depending upon the progress in RAN2.

Note: RAN4 didn’t study impact of L3 beam level measurements. However, it doesn’t preclude the discussion on L3 beam level measurements in the work item phase.

**Issue 2-7: Inter-frequency prediction scenario**

Agreement:

RAN4 to study whether and how correlation coefficient can be considered in simulation assumption for RAN4 requirements.

RAN4 requirements for measurement event prediction

**Issue 3-1: Performance metric for event prediction use case**

Agreement:

In case of indirect measurement event prediction use case, if the report includes the predicted RSRPs [corresponding to the predicted event occurrence time], RAN4 will define requirement for the absolute and/or relative accuracy of predicted RSRP.

**Issue 1-2-3: Testing Setup for intra-frequency prediction**

Agreement:

* Clarify the agreement in last meeting:
  + For intra-frequency intra-cell RRM measurement prediction/event prediction, RAN4 to consider two cells in the test: serving cell and another/target cell.
    - Note: The measurement and prediction are performed on the same cell.

**R4-2508419 TP on RAN4 aspects for TR 38.744**

*Type: pCR For: Approval  
 38.744 v0.0.4 CR- rev Cat: (Rel-19)  
  
 Source: OPPO, Nokia*

Agreement: To add the SI SR that

This TP is approved under the assumption that the updated TR (with this TP implemented) is only for information in the June RAN plenary.

In the August meeting, RAN4 will further discuss other open issues not captured in the TP.

**Decision: Approved.**

#### 2.4.2 Remaining Open issues

Testing setup in FR1/FR2, and prediction consistency in time domain.

Interoperability and generalization issue.

## 2.5 RAN5

#### 2.5.1 Agreements

#### 2.5.2 Remaining Open issues

#### 2.5.3 Remaining Open issues with cross-WG dependencies

## 2.6 RAN6

#### 2.6.1 Agreements

#### 2.6.2 Remaining Open issues

## 3. Detailed progress in SA/CT WGs since last TSG meeting (for all involved WGs)

NOTE: This section only needs to be filled in for WI/SIs where there is a corresponding relevant WI/SI in SA/CT.

## 3.1 SAx/CTs

#### 3.1.1 Agreements with cross-TSG impacts

#### 3.1.2 Remaining Open issues with cross-TSG impacts

NOTE: This section should also flag any critical dependencies that need TSG attention.

## 4. References

NOTE: This can be e.g. a list of all related Tdocs in the affected WGs since last TSG, references to LSs, produced TRs/TSs, the work/study item description or status reports of previous TSGs.

RAN2#129bis tdocs

R2-2501789 Way forward on study of beam-level prediciton vivo, Ericsson, ZTE, Huawei, HiSilicon, CATT, NTT DOCOMO, CMCC, Samsung, Interdigital

R2-2501790 Simulation results of model generalization on cell configuration vivo

R2-2501791 Simulation results for measurement event prediction and SLS vivo

R2-2501792 Discussion on LCM and spec impact vivo

R2-2501821 Summary of [POST129][021][AI Mob] TR update (OPPO) OPPO.

R2-2501822 Text proposal of TR 38.744 OPPO

R2-2501823 Simulation results of measurement event prediction OPPO

R2-2501824 Discussion on model generalization of RRM measurement prediction OPPO

R2-2501825 Discussion on spec impact of AI mobility OPPO

R2-2501862 RRM measurement prediction specification impact discussion NEC

R2-2501863 Simulation assumptions, metrics and specification impact for measurement event prediction NEC

R2-2501905 Discussion on measurement event prediction using large language model BJTU

R2-2501926 Simulation results of Model Generalization CATT, Turkcell

R2-2501927 Simulation results of measurement event prediction and handover performance CATT, Turkcell

R2-2501928 Specification impact for AIML mobility CATT, Turkcell

R2-2501935 Discussion on generalization performance over cell configuration Xiaomi

R2-2501936 Discussion on event prediction simulation results Xiaomi

R2-2501937 Discussion on LCM and spec impact for AI/ML mobility Xiaomi

R2-2501990 LCM and Spec Impact for AI/ML Mobility Lenovo

R2-2502001 Discussion on Generalization Issues for AI/ML Mobility Samsung

R2-2502003 Discussion on AIML mobility LCM procedure NEC

R2-2502106 Discussion and preliminary results for direct and indirect event prediction MediaTek Inc.

R2-2502107 Discussion on the simulation results illustration for AI mobility MediaTek Inc.

R2-2502112 Generalization performance evaluation MediaTek Inc.

R2-2502113 Discussion on LCM and Specificaton Impact for AI Mobility MediaTek Inc.

R2-2502138 Simulation results for measurement event prediction and system level performance Samsung

R2-2502139 Discussion on LCM and spec impact for AI/ML mobility Samsung

R2-2502176 On generalization across cell configurations Apple

R2-2502177 On LCM for AI/ML mobility Apple

R2-2502178 SLS evaluation results for RRM measurement prediction Apple

R2-2502179 On standards impacts other than LCM Apple

R2-2502230 Evaluations on measurement event prediction NTT DOCOMO, INC.

R2-2502231 Discussions on LCM and specification impact for AI/ML mobility NTT DOCOMO, INC.

R2-2502253 Generalization of AIML models for RRM measurement prediction Interdigital Inc.

R2-2502254 Measurement event predictions Interdigital Inc.

R2-2502255 LCM and spec impact for AI/ML mobility Interdigital Inc.

R2-2502281 Simulation Results for Model Generalization Qualcomm Incorporated

R2-2502282 Simulation Results for Measurement Event Prediction Qualcomm Incorporated

R2-2502283 LCM and specifications impact for AI/ML for mobility Qualcomm Incorporated

R2-2502437 Discussion on LCM and spec impact for AIML mobility Spreadtrum, UNISOC

R2-2502460 Discussion on Specification-related Aspects for AI/ML-based Mobility Sharp

R2-2502462 Discussion on specification impacts of AIML aided mobility Huawei, HiSilicon

R2-2502463 RRM measurement prediction model generalization evaluation for different cell configurations Huawei, HiSilicon

R2-2502464 Further simulation results for measurement event prediction in FR2 Huawei, HiSilicon

R2-2502500 Data collection for event prediction Sony

R2-2502627 Generalization of the AI/ML models for RRM prediction Ericsson

R2-2502628 SLS Results for Event Predictions Ericsson

R2-2502650 Discussion on LCM for AI for Mobility Ericsson

R2-2502711 Discussion on LCM for RRM measurement prediction with UE sided model CMCC

R2-2502712 Discussion on LCM for RRM measurement prediction with NW sided model CMCC

R2-2502733 Discussion on LCM for measurement event prediction CMCC

R2-2502822 Discussion on LCM for AIML Mobility ASUSTeK

R2-2502879 Evaluation results for RRM measurement prediction generalization Nokia

R2-2502880 On the measurement event prediction Nokia

R2-2502881 Considerations on LCM for AIML Mobility Nokia

R2-2502925 Discussion on LCM and spec impact ETRI

R2-2502949 Discussion on specification impact for event prediction KDDI Corporation

R2-2502968 Discussion on measurement event prediction ZTE Corporation

R2-2502969 Discussion on model generalization of RRM measurement prediction ZTE Corporation

R2-2502970 Discussion on spec impact for AI mob ZTE Corporation

RAN2#130 tdoc

R2-2503371 Discussion on functionality management vivo

R2-2503372 Configuration and report of inference input to network sided model vivo

R2-2503373 Discussion on data collection vivo

R2-2503465 Discussion on AIML mobility Performance monitoring NEC

R2-2503466 Discussion on AIML mobility Configuration and Report of Inference input to network sided model NEC

R2-2503514 AI/ML for mobility Configuration and Functionality management Qualcomm Incorporated

R2-2503515 Configuration and reporting for inference for network-side model Qualcomm Incorporated

R2-2503516 Performance monitoring of AI/ML for Mobility Qualcomm Incorporated

R2-2503534 Discussions on functionality management NTT DOCOMO, INC.

R2-2503535 Discussions on data collection NTT DOCOMO, INC.

R2-2503536 Discussions on performance monitoring NTT DOCOMO, INC.

R2-2503541 Text proposal of TR 38.744 OPPO

R2-2503542 Draft text porposal to capture simulation results OPPO

R2-2503543 Discussion on functionality management for UE sided model OPPO

R2-2503544 Discussion on performance monitoring OPPO

R2-2503545 Discussion on data collection OPPO

R2-2503572 Discussion on AIML mobility functionality management NEC

R2-2503592 Functionality management of AIML mobility CATT, Turkcell

R2-2503593 Discussion on data collection for AIML mobility CATT, Turkcell

R2-2503594 Discussion on performance monitoring CATT, Turkcell

R2-2503638 Discussion on inference solution and functionality management for UE sided model Xiaomi

R2-2503639 Discussion on configuration and report for NW sided model Xiaomi

R2-2503640 Discussion on data collection Xiaomi

R2-2503656 Discussion on Inference Reporting for AI/ML-based Mobility Sharp

R2-2503686 Functionality Management for AI/ML Mobility Lenovo

R2-2503687 Configuration and Report of Inference Input to NW-sided model Lenovo

R2-2503688 Support of Model Monitoring for AI/ML Mobility Lenovo

R2-2503693 Functionality management for UE sided model for RRM measurement prediction Interdigital Inc.

R2-2503694 Data collection for RRM measurement prediction Interdigital Inc.

R2-2503695 Performance Monitoring for AI/ML Mobility Interdigital Inc.

R2-2503705 On functionality of UE-sided AI/ML mobility Apple

R2-2503706 On NW-sided AI/ML mobility Apple

R2-2503707 On data collection for AI/ML mobility Apple

R2-2503778 Report of [POST129bis][020][AI Mob] Sim. Results Figures (Mediatek) MediaTek Inc.

R2-2503780 Support of Spatial Domain Prediction for AI Mobility MediaTek Inc., vivo, CATT, Qualcomm Incorporated, Nokia, Huawei, HiSilicon, Ericsson, Samsung

R2-2503782 Discussion on Functionality Management for AI Mobility MediaTek Inc.

R2-2503783 Discussion on Performance Monitoring for AI Mobility MediaTek Inc.

R2-2503964 Discussion on Functionality management for AI mobility Spreadtrum, UNISOC

R2-2503965 Discussion on Performance monitoring for AI mobility Spreadtrum, UNISOC

R2-2503983 Discussion on functionality management for UE-side model Samsung

R2-2503984 Discussion on configuration and report of inference input for NW-side model Samsung

R2-2504108 Discussion on functionality management for UE sided model Huawei, HiSilicon

R2-2504109 Discussion on NW-sided model support Huawei, HiSilicon

R2-2504110 Discussion on performance monitoring Huawei, HiSilicon

R2-2504131 Inference and report configuration of UE sided model Ericsson

R2-2504132 Data collection for network sided and UE sided models Ericsson

R2-2504284 Functionality management for AI mobility Nokia, Nokia Shanghai Bell

R2-2504285 Discussion on performance monitoring Nokia

R2-2504286 Considerations on data collection Nokia

R2-2504297 Discussion on performance monitoring Ericsson

R2-2504361 Discussion on Performance Monitoring for AI/ML Mobility Samsung

R2-2504380 Discussion on data collection for AI Mob CMCC

R2-2504381 Discussion on performance monitoring for AI Mob CMCC

R2-2504441 Discussion on functionality management for UE sided model CMCC

R2-2504459 Discussion on functionality management for AI mob ZTE Corporation

R2-2504460 Discussion on configuration and report of inference input to network sided model ZTE Corporation

R2-2504461 Discussion on data collection for AI mob ZTE Corporation

R2-2504492 Discussion on functionality management for AIML Mobility ASUSTeK

R2-2504552 Discussion on measurement report and configuration for UE sided model KDDI Corporation

R2-2504575 Performance monitoring TURKCELL

RAN4#114bis tdocs

R4-2503300 Discussion on study of testability and interoperability for AIML mobility Xiaomi

R4-2503308 Discussion on impacts on RAN4 requirement for RRM measurement prediction in AI mobility Xiaomi

R4-2503309 Discussion on impacts on RAN4 requirement for measurement event prediction in AI mobility Xiaomi

R4-2503350 Discussion on general aspects for AI mobility OPPO

R4-2503351 Study of impacts on RAN4 requirements for RRM measurement prediction OPPO

R4-2503352 Study of impacts on RAN4 requirements for measurement event prediction OPPO

R4-2503353 Study of testability and interoperability for AI mobility OPPO

R4-2503411 Discussion on impacts of AIML RRM measurement prediction on RRM requirements CATT

R4-2503412 Discussion on impacts of AIML measurement event prediction on RRM requirements CATT

R4-2503413 Discussion on testability and interoperability issues for AIML mobility CATT

R4-2503520 On Testability and Interoperability Issues for AIML Mobility in NR Apple

R4-2503521 General aspects on AI/ML for mobility in NR Apple

R4-2503522 Study of RAN4 impacts for RRM measurement prediction for AIML Mobility in NR Apple

R4-2503523 Study of RAN4 impacts for measurement event prediction for AIML Mobility in NR Apple

R4-2503582 Discussion of RAN4 impacts for RRM measurement prediction LG Electronics Inc.

R4-2503607 Discussion on RAN4 impacts for RRM measurement prediction MediaTek Inc.

R4-2503608 Discussion on RAN4 impacts for measurement event prediction MediaTek Inc.

R4-2503609 Discussion on testability and interoperability of AI mobility MediaTek Inc.

R4-2503620 Topic summary for [114bis][210] FS\_NR\_AIML\_Mob Moderator (Nokia)

R4-2503645 TP on RAN4 aspects for TR 38.744 OPPO

R4-2503705 Study of impacts on RAN4 requirements for AIML mobility in NR Tejas Network Limited

R4-2503774 Discussion on general part for AI/ML for mobility CMCC

R4-2503775 Discussion on RAN4 impacts for RRM measurement prediction CMCC

R4-2503776 Discussion on RAN4 impacts for measurement event prediction CMCC

R4-2503777 Discussion on testability and interoperability for AI/ML for mobility CMCC

R4-2503787 Discussions on RRM measurement impacts of AIML for mobility NTT DOCOMO, INC.

R4-2503850 Discussion on General Aspects of AIML Mobility ZTE Corporation, Sanechips

R4-2503851 Discussion impacts on requirements of AI/ML mobility ZTE Corporation, Sanechips

R4-2503852 Discussion on impacts for measurement event prediction ZTE Corporation, Sanechips

R4-2503853 Discussion on the interoperability and testability aspects ZTE Corporation, Sanechips

R4-2503886 Discussion on genereal aspects in AIML mobility Huawei, HiSilicon

R4-2503887 Discussion on impacts for RRM measurement prediction Huawei, HiSilicon

R4-2503888 Discussion on impacts for measurement event prediction Huawei, HiSilicon

R4-2503889 Discussion on testability and interoperability issues in AIML mobility Huawei, HiSilicon

R4-2503928 General discussion on AI/ML for mobility Ericsson

R4-2503929 On requirements for RRM measurement prediction for AI/ML based mobility Ericsson

R4-2503930 On requirements for Event prediction for AI/ML based mobility Ericsson

R4-2503931 On testing of AI/ML based mobility Ericsson

R4-2504046 Discussion on general aspects for AI mobility vivo

R4-2504047 Discussion on RAN4 impacts for RRM measurement prediction vivo

R4-2504048 Discussion on RAN4 impacts for measurement event prediction vivo

R4-2504049 Discussion on testability and interoperability for AI mobility vivo

R4-2504232 Study of RAN4 impacts for RRM measurement prediction Nokia

R4-2504233 Study of RAN4 impacts for measurement event prediction Nokia

R4-2504234 Study of testability and interoperability on AI/ML Mobility Nokia

R4-2504286 General discussion on AI mobility regarding testability and interoperability Samsung

R4-2504287 General discussion on AI mobility regarding RAN4 requirements impact Samsung

R4-2504288 Discussion on AI mobility general and scope Samsung

R4-2504524 Impact of AI based mobility on RRM measurement prediction Qualcomm Incorporated

R4-2504525 Impact of AI based mobility on RRM event prediction Qualcomm Incorporated

R4-2504526 Testability and data consistency Qualcomm Incorporated

R4-2504901 WF on RRM requirements for FS\_NR\_AIML\_Mob Nokia

R4-2504954 TP on RAN4 aspects for TR 38.744 OPPO

R4-2504963 TP on skeleton of RAN4 aspects for TR 38.744 OPPO

RAN4#115 tdocs

R4-2505564 Topic summary for [115][215] FS\_NR\_AIML\_Mob\_Part1 Moderator (Nokia)

R4-2505565 Topic summary for [115][216] FS\_NR\_AIML\_Mob\_Part2 Moderator (OPPO)

R4-2505694 Discussion on general aspects for AI mobility OPPO

R4-2505695 TP on RAN4 aspects for TR 38.744 OPPO, Nokia

R4-2505696 Study of impacts on RAN4 requirements for RRM measurement prediction OPPO

R4-2505697 Study of impacts on RAN4 requirements for measurement event prediction OPPO

R4-2505698 Study of testability and interoperability for AI mobility OPPO

R4-2505766 Discussion on impacts on RAN4 requirement for RRM measurement prediction in AI mobility Xiaomi

R4-2505767 Discussion on impacts on RAN4 requirement for measurement event prediction in AI mobility Xiaomi

R4-2505790 Discussion on study of testability and interoperability for AIML mobility Xiaomi

R4-2505948 On Testability and Interoperability Issues for AIML Mobility in NR Apple

R4-2505949 General aspects on AI/ML for mobility in NR Apple

R4-2505950 Study of RAN4 impacts for RRM measurement prediction for AIML Mobility in NR Apple

R4-2505951 Study of RAN4 impacts for measurement event prediction for AIML Mobility in NR Apple

R4-2505985 Discussion on impacts of AIML RRM measurement prediction on RRM requirements CATT

R4-2505986 Discussion on impacts of AIML measurement event prediction on RRM requirements CATT

R4-2505987 Discussion on testability and interoperability issues for AIML mobility CATT

R4-2506171 Study of RAN4 impacts for RRM measurement prediction for AIML mobility in NR Tejas Network Limited

R4-2506306 Discussion of RAN4 impacts for RRM measurement prediction LG Electronics Inc.

R4-2506507 Discussion on RAN4 impacts for RRM measurement prediction MediaTek Inc.

R4-2506508 Discussion on RAN4 impacts for measurement event prediction MediaTek Inc.

R4-2506509 Discussion on testability and interoperability of AI mobility MediaTek Inc.

R4-2506547 Discussion on general aspects for AI mobility vivo

R4-2506548 Discussion on RAN4 impacts for RRM measurement prediction vivo

R4-2506549 Discussion on RAN4 impacts for measurement event prediction vivo

R4-2506550 Discussion on testability and interoperability for AI mobility vivo

R4-2506562 Discussion on the interoperability and testability aspects ZTE Corporation, Sanechips

R4-2506563 Discussion impacts on requirements of AI/ML mobility ZTE Corporation, Sanechips

R4-2506564 Discussion on General Aspects of AIML Mobility ZTE Corporation, Sanechips

R4-2506565 Discussion on impacts for measurement event prediction ZTE Corporation, Sanechips

R4-2506610 Discussion on general part for AI/ML for mobility CMCC

R4-2506611 Discussion on RAN4 impacts for RRM measurement prediction CMCC

R4-2506612 Discussion on RAN4 impacts for measurement event prediction CMCC

R4-2506613 Discussion on testability and interoperability for AI/ML for mobility CMCC

R4-2506735 Discussion on genereal aspects in AIML mobility Huawei, HiSilicon

R4-2506736 Discussion on impacts for RRM measurement prediction Huawei, HiSilicon

R4-2506737 Discussion on impacts for measurement event prediction Huawei, HiSilicon

R4-2506738 Discussion on testability and interoperability issues in AIML mobility Huawei, HiSilicon

R4-2507123 Discussions on requirements for RRM measurement prediction on AIML mobility NTT DOCOMO, INC.

R4-2507124 Discussions on requirements for measurement event prediction on AIML mobility NTT DOCOMO, INC.

R4-2507255 General discussion on AI mobility regarding testability and interoperability Samsung

R4-2507432 On RAN4 Impacts for RRM measurement prediction in AIML Mobility Nokia

R4-2507433 On RAN4 Impacts for Measurement Event Prediction in AIML Mobility Nokia

R4-2507534 On General aspects in AIML Mobility Nokia

R4-2507535 Testability and Interoperability Issues for AIML Mobility Nokia

R4-2507665 TP for TR38.744 Ericsson

R4-2507666 General discussion on AI/ML for mobility Ericsson

R4-2507667 On requirements for RRM measurement prediction for AI/ML based mobility Ericsson

R4-2507668 On requirements for Event prediction for AIML based mobility Ericsson

R4-2507669 On testing of AI/ML based mobility Ericsson

R4-2507801 Impact of AI based mobility on RRM measurement prediction Qualcomm Incorporated

R4-2507802 Impact of AI based mobility on RRM event prediction Qualcomm Incorporated

R4-2507803 Testability and data consistency Qualcomm Incorporated

R4-2508267 Ad-hoc minutes for FS\_NR\_AIML\_Mob Nokia

R4-2508268 WF on FS\_NR\_AIML\_Mob\_Part1 Nokia

R4-2508269 WF on FS\_NR\_AIML\_Mob\_Part2 OPPO

R4-2508419 TP on RAN4 aspects for TR 38.744 OPPO, Nokia