**3GPP T****SG-RAN WG3 Meeting #125bis**

**Hefei, China, 14 – 18 October, 2024**

|  |
| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** | **1** | **Current version:** |  |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network |  |

|  |
| --- |
|  |
| ***Title:***  | Correction on AI/ML Terminology |
|  |  |
| ***Source to WG:*** | Nokia |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | NR\_AIML\_NGRAN-Core |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** |  F |  | ***Release:*** |  |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | RAN3 agreed that AI/ML Model Training follows the definition of the "ML model training" as specified in clause 3.1 of TS 28.105. However, ML Model training includes only training and validation processes while Model Training in the AI/ML for NG-RAN framework also includes the process of Model Testing, cf. TR 37.817 clause 4.1. |
|  |  |
| ***Summary of change:*** | Update the definition of ML Model Training.Impact analysis:Impact assessment towards the previous version of the specification (same release): this CR has isolated impact with the previous version of the specification (same release). The impact can be considered isolated because it is limited to AI/ML for NG-RAN. |
|  |  |
| ***Consequences if not approved:*** | Wrong specification.  |
|  |  |
| ***Clauses affected:*** | 16.20.2  |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS 38.401 CR 0436  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Rev0 :R3-245598Rev1: Added note “An AI/ML Model needs to be trained, validated and tested before deployment for AI/ML Model Inference.” |

<<< start of changes >>>

### 16.20.2 Principles

Support of AI/ML for NG-RAN requires inputs from neighbour NG-RAN nodes (e.g., predicted information, feedback information, measurements) and/or UEs (e.g., measurement results).

Signalling procedures used for the exchange of information to support AI/ML for NG-RAN, are use case and data type agnostic, which means that the intended usage (e.g., input, output, feedback) of the data exchanged via these procedures is not indicated.

AI/ML algorithms and models are out of 3GPP scope, and the details of model performance feedback are also out of 3GPP scope.

Support of AI/ML for NG-RAN does not apply to ng-eNB.

For the deployment of AI/ML for NG-RAN the following scenarios may be supported:

- AI/ML Model Training is located in the OAM and AI/ML Model Inference is located in the NG-RAN node;

- AI/ML Model Training and AI/ML Model Inference are both located in the NG-RAN node.

AI/ML Model Training follows the definition of the "ML model training" as specified in clause 3.1 of TS 28.105 [64]. Note: An AI/ML Model needs to be trained, validated and tested before deployment for AI/ML Model Inference.

AI/ML Model Inference follows the definition of the "AI/ML inference" as defined in clause 3.1 of TS 28.105 [64].

<<<End of changes>>>