**3GPP TSG-RAN WG4 Meeting #100-e *R4-2115744***

Electronic Meeting, 16th Aug. – 27th Aug., 2021

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **37.901-5** | **CR** | **draftCR** | **rev** | **-** | **Current version:** | **16.4.0** |  |
|  |
| *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)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

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| ***Title:***  | Draft TP on ATP performance simulation alignment criteria |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** |  FS\_UE\_5GNR\_App\_Data\_Perf |  | ***Date:*** | 2021-08-22 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-17 |
|  | *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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | * New section for simulation alignment criteria
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| ***Summary of change:*** | * Add new section for simulation alignment criteria.
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|  |  |
| ***Consequences if not approved:*** | * The spec. is incorrect.
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|  |  |
| ***Clauses affected:*** | 5 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** | **X** |  |  Test specifications | TS38.533 |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | This draftCR is revisioned from R4-2113644. |

-------------------------------------------------------- Beginning of Change 1-----------------------------------------------------------

5.10.2 Test Methodology

5.10.2.1 Simulation Alignment Criteria

The absolute throughput simulation results may vary among interested companies which is highly related to different implementation. In this section, the simulation alignment criteria for application layer data throughput performance is provided.

* When SNR span (Gspan) can be reached for the T% of maximum throughput, it can be believed the simulation results are aligned among the interested companies, where,
	+ Maximum throughput is defined with TBS corresponding to CQI index 15 with rank 2 for 2Rx/4Rx UE.
	+ Gspan = Max (G) – Min (G), where G is the set of SNRs submitted by different companies to achieve T% of maximum throughput
	+ Gspan is based on simulation results from interested companies. Candidate option is Gspan = [2.5] dB.

5.10.2.2 Methodology for Requirements Definition

After aligning the simulation results based on simulation alignment criteria specified in clause 5.10.2.1, the absolute physical layer throughput requirements can be defined as T% of maximum throughput that needs to be achieved at (average SNR of impairments results to achieve T% of maximum throughput + X dB margin).

------------------------------------------------------------ End of Change 1---------------------------------------------------------------