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| **Radiocommunication Study Groups** |  |
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| **4 February 2020** |
| **English only**  **TECHNOLOGY ASPECTS** |
| Beijing University of Posts and Telecommunications, Spark NZ Limited | |
| Proposal on Updated Simulation platform of IMT-2020 channel model for evaluation | |
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Introduction

The draft new Report ITU-R M.[IMT-2020.EVAL] has been approved as ITU-R M.2412-0 in November,2017 and is available on the ITU web site for evaluation groups all over the world [1]. At the 29th Munich meeting of WP5D, Beijing University of Posts and Telecommunications, China Mobile Communications Corporation and Spark NZ Limited has submitted in 5D/841 a MATLAB simulation platform of ITU-R IMT-2020 channel model for the single link in order to support the further technology evaluation.

Discussions

The MATLAB platform proposed in Document 5D/841 is a fundamental platform for generating channel of single link according to the ITU-R M.2412-0. The new updated MATLAB simulation platform, IMT-2020 CM\_BUPT v2.0, supports the multi-link channel impulse response generation for system level simulation. Besides the main channel procedure of channel coefficient generation of Primary Module, several important advanced modeling components are also implemented in the updated platform, such as Spatial consistency, Blockage, etc. The MATLAB platform is also shared on the website: <http://www.zjhlab.net/publications/imt-2020_cm_bupt/>, and will be continuously updated and checked with the self-evaluation of 3GPP.

Proposals

We propose to share the platform on the informative materials part of IMT-2020 submission and evaluation process on the ITU-R WP 5D website. The updated ITU-R IMT-2020 channel MATLAB simulation platform has been proposed in the Attachment 1.

References

[1] ITU-R M.2412-0, “Guidelines for evaluation of radio interface technologies for IMT‑2020”, Nov. 2017.

ATTACHMENT 1



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