

# Vienna LTE Simulators

## LTE-A Link Level Simulator Documentation, v1.1

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### Abstract

This document contains documentation on how to use the Long Term Evolution Advanced (LTE-A) Link Level simulator [1] from the Vienna LTE simulator suite, as well as some insight on its structure and the assumptions that were made while developing it. This simulator is an extension of the previously published Vienna LTE Link Level Simulator. This document gives an introduction on how to use the simulator. The concept and the structure of the simulator is described in more detail in [2].

### I. FOREWORD

The LTE-A link level simulator is published under a non-commercial academic use license. Please make sure that you understand the terms and conditions of the license before you use any of the available software packages. Would you require a license different to a non-commercial academic one please contact Stefan Schwarz, Michal Simko or Josep Colom Ibane.

The detailed license agreement for the LTE-A Link Level simulator can be found in Section XVIII. Please read the license agreement carefully, as parts of the code are under the GNU Lesser General Public License [3], and the MIT License [4].

### II. RUNNING THE SIMULATOR FOR THE FIRST TIME

The LTE-A Link Level simulator is provided with several test simulation scenarios that can be used to verify that the simulator runs in the expected way.

In the `./examples` directory you can execute the `LTE_sim_batch_quick_test` MATLAB script. This script provides a means to test the performance of a single user Long Term Evolution (LTE) transmission on an uncorrelated TU channel for several transmission modes [5] and antenna configurations (number of transmit antennas  $N_t$ , times number of receive antennas  $N_r$ ). All simulated transmission modes (Single-Input Single-Output (SISO), Transmit Diversity (TxD), Open Loop Spatial Multiplexing (OLSM) and Closed Loop Spatial Multiplexing (CLSM)) utilize User Equipment (UE) feedback to adapt important transmission parameters (code rate, modulation alphabet, Multiple-Input Multiple-Output (MIMO) preprocessing) to the channel quality (see [6] for details). The script produces plots of the cell throughput obtained with the different transmission modes. To verify their correctness, these plots can be compared to the figures provided in the subdirectory `./LTE_quick_test_results` of the directory `./examples` or to the curves shown in Figure 1. The result of the simulation is a group of result files that is stored in the `./results` folder. Details to the simulation setup can be found in [7].

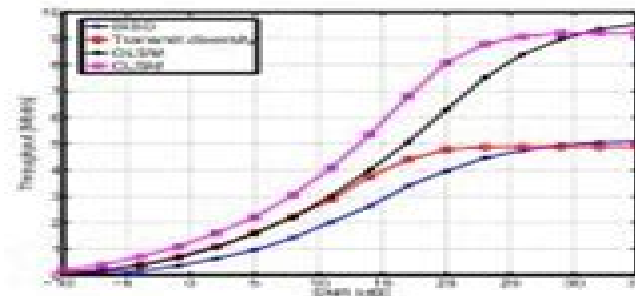


Fig. 1. Plots resulting from running the `LTE_sim_batch_quick_test` MATLAB script

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**Rosina Ehmann**



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