Vienna LTE Simulators
System Level Simulator Documentation, v1.4r570

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Abstract

This document contains documentation on how to use the Long Term Evolution (LTE) System Level simulator [1] as well as some insight on its structure and the assumptions that were made while developing it. This document relates more on how to actually use the simulator. The concept and the structure of the simulator is described in more detail in [2].

I. FOREWORD

The LTE system 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 Josep Colom Ikuno or Martin Taranetz.

The detailed license agreement for the LTE System Level simulator can be found in Section XVII. Please read the license agreement carefully.

II. RUNNING A SIMULATION

The main file of the LTE Link Level Simulator is `LTE_sim_main.m`, though you may normally run the simulation through a batch file such as `LTE_sim_launcher.m`, which performs the following tasks:

- Loading a configuration file of choice. See Section III for a list of configurable parameters.
- Executing the `LTE_sim_main.m` main simulation file.

III. SIMULATION PARAMETERS

Below you can find a list of the parameters that can be configured in the `LTE_load_params` file:

A. General parameters

- `LTE_config.debug_level`: configures how much debug text output is shown. Options are:
  - 0: no output.
  - 1: basic output.
  - 2: extended output.
- `LTE_config.show_network.`: configures how much plots are shown. Options are:
  - 0: no plots shown.
  - 1: show some plots.
  - 2: show all plots, which includes one showing the moving User Equipments (UEs), which may slow down simulations significantly.
  - 3: show also the plots of the generated microscale fading traces.
- `LTE_config.frequency.`: frequency in which the system is operating [Hz].
- `LTE_config.bandwidth.`: system bandwidth. Allowed values are 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, and 20 MHz. This bandwidths are equivalent to 6, 15, 25, 50, 75, and 100 Resource Blocks (RBs) respectively.
- `LTE_config.UEs_only_in_target_sector`: defines whether UEs are created in the whole Region Of Interest (ROI) or just in the target sector. for the case where the UEs are just positioned in one sector, the other transmitters radiate at maximum power, just acting as interferers.
- `LTE_config.target_sector`: if UEs are only to be set in the target sector, this setting specifies which one that is. Set it to center for specifying the target sector to be the center one. [eNodeB_id sector_id] otherwise.
- `LTE_config.nTX`: number of transmit antennas. Used to generate the microscale fading trace.
- `LTE_config.nRX`: number of receive antennas. Used to generate the microscale fading trace.
- `LTE_config.tx_mode`: the transmission modes are defined in TS 36.213-820 Section 7.1, page 12 [3].

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S Ben Porath

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