**Notes about the different files:**

**Main files:**1) simAC\_50\_20\_variaT1.m: This file is used to simulate the Configuration #1 of the paper. This configuration is referred to as “RAN\_SLICING\_AT\_AC” in the code, because it only distinguishes between slices in the admission control stage.

2) simPS\_70\_30\_variaT1.m: This file is used to simulate the Configuration #2 of the paper. This configuration is referred to as “RAN\_SLICING\_AT\_PS” in the code, because it distinguishes between slices in the Packet Scheduling process (“compute\_occupation”) function.

3) simNoSlicealfa07\_variaT1.m: This file is used to simulate the Configuration #0 of the paper. This configuration corresponds to using “RAN\_SLICING\_AT\_AC” but with admission control algorithm”NO\_SLICING”. In this way, the admission control stage does not distinguish between slices.

**Other files:**

4) base.m: Contains the class of a base station

5) UE.m: Contains the class of a UE

6) prop\_model.m: Function with the propagation model formula.

7) SpEff.m: Function with the spectral efficiency formula.

8) compute\_occupation.m: Function that computes the amount of Resource Blocks allocated to each slice.

**Scripts useful for processing the output results of a simulation:**

9) llegeix\_stats.m: This script is used to accumulate a set of statistics obtained after executing a simulation and grouping them in a matrix called "result". It is useful to copy all the statistics and process them later on with Excel.

10) llegeix\_fitxers.m: This script is used to open the different simulation results files (files .mat) and to make calls to llegeix\_stats.m in order to accumulate the results in the matrix "result". The script llegeix\_fitxers.m has to be updated based on the simulations that are carried out and the names of the output files that have been specified for each simulation.

11) TemplateResults.xlsx: Excel file with a template that can be used to make figures similar to the ones in the paper.

**Specific comments:**

- In the code, the term “tenant” is used with the same meaning as “slice”.

- The execution of one of the main files above (files 1,2,3) leads to 6 different simulations executed one after the other. Each simulation takes one value of the parameter vector\_variation=[0.5,1.0,1.5,2.0,2.5,3.0];

that correspond to different arrival rates of all the services of slice 1 (i.e. the variable BS(1).lambda\_ini(1) takes in each simulation a different value of “vector\_variation”).

- The results of one simulation are stored in a .mat file whose name is specified at the end of the code (variable “name\_output\_file”).

**How to process the output results?**

- After having executed a set of different simulations and having obtained a set of output .mat files, prepare the script “llegeix\_fitxers.m” so that it reads the names of the files that have been generated. The read has to be performed in an appropriate order depending on what is to be represented in Excel.

- The file “llegeix\_stats.m” should be also prepared depending on the statistics to be represented.

- Execute the script “llegeix\_fitxers.m”, and it will provide the variable “results” with all the statistics of all the simulations.

- The variable “results” can be copied to the Excel template to visualize the different statistics.